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PRM32-LK

LED UPGRADE KIT

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

FEATURES

- Reliable, uniform, glare free illumination
- Types II, III, IV, V and custom distributions
- 3000K, 4000K, 5000K CCT
- 0-10V dimming ready
- Integral surge suppression
- Upgrade Kits

PROMENADE

Promenade PRM32-LK LED Deck

SPECIFICATIONS

CONSTRUCTION

- All internal and external hardware are stainless steel
- Luminaire finish consists of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish.
- Optical bezel finish matches the luminaire housing

LED/OPTICS

- Molded silicone gasket ensures a weather-proof seal around each individual LED
- Features revolutionary individual LED optical control based on high performance TIR optical designs

LED/OPTICS CONTINUED

- House Side Shield is available on Standard and Clear Lens options except any Type 5 distribution. House Side Shield is not available for any distribution using a Diffused Lens

INSTALLATION

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

ELECTRICAL

- Luminaires have integral surge protection, UL recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J

ELECTRICAL CONTINUED

- Drivers are UL recognized with an inrush current maximum of <20.0 Amps maximum at 230VAC
- 100%-1% dimming range. Fixture will be wired for low voltage 0-10V dimming control
- Driver and surge suppressor are mounted to a prewired tray with quick disconnects that may be removed from the gear compartment

CERTIFICATIONS

- ETL listed under UL 1598 and CSA C22.2 No. 250.0-08 for wet locations

WARRANTY

- 5 year warranty

HOUSING

PRM32-LK

Housing		LED Quantity		Lumen output		CCT/CRI		Distribution		Finish	
PRM32- LK	Promenade Upgrade Kit	**36L**	36 LED	**285**	285mA, 4,000 lumens	**AMB**	Amber-595nm Peak[1]	**1**	Type I	**BLS**	Black Gloss Smooth
				450	450mA, 8,500 lumens	**3K7**	3000K, 70 CRI	**2**	Type II	**BLT**	Black Matte Textured
				470	450mA, MicroCore Equivalent	**4K7**	4000K, 70 CRI	**3**	Type III	**DBS**	Dark Bronze Gloss Smooth
				615	700mA, MicroCore Equivalent	**5K7**	5000K, 70 CRI	**4W**	Type IV Wide	**DBT**	Dark Bronze Matte Textured
								5Q	Type V Square	**GTT**	Graphite Matte Textured
								5W	Type V Wide	**LGS**	Light Grey Gloss Smooth
										LGT	Light Grey Matte Textured
										PSS	Platinum Silver Gloss Smooth
										VGT	Verde Green Matte Textured
										WHS	White Gloss Smooth
										WHT	White Matte Textured
										Color Option	
										CC [4]	Custom Color

Optional Lens		Options		Voltage	
CL	Clear Lens	**HS**	House Side Shield[3]	**UNV**	120-277V
SG	Clear Sag Lens	**SF**	Single Fuse (120,277)		
		DF	Double Fuse (208,240)[2]		

Notes:

1 Turtle friendly

2 Diffused Lens is available only with T3 and T5W distribution

3 House side Shield is available only with T1, T2, T3 and T4W distributions

4 Consult factory for custom color, marine and corrosive finish options

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DELIVERED LUMENS

The table below shows the delivered lumens for the various lumen outputs and beam distributions. Use this chart in connection with the lumen factor (LF) capability to deliver any output required.

LUMINAIRE PERFORMANCE – NO LENS

LED #	Drive Current	Lumen Package	Lens	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)
36	285	4,000	No Lens	1	4260	1	0	0	126.4	4320	1	0	0	128.2	4396	1	0	0	130.8
				2	3975	1	0	1	117.9	4031	1	0	1	119.6	4102	1	0	1	119.4
				3	3875	1	0	1	111.8	3930	1	0	1	114.4	3999	1	0	1	118.1
				4W	3792	1	0	2	112.5	3845	1	0	2	114.1	3913	1	0	2	117.3
				1-HS	2465	0	0	0	73.1	2500	0	0	0	74.2	2544	0	0	0	76.2
				2-HS	1957	0	0	0	58.1	1985	0	0	0	58.9	2020	0	0	0	60.6
				3-HS	1884	0	0	0	55.9	1910	0	0	0	56.7	1944	0	0	0	58.4
				4W-HS	1846	0	0	1	54.8	1872	0	0	1	55.5	1905	0	0	1	57.0
				5Q	3993	2	0	1	118.5	4050	2	0	1	120.2	4121	2	0	1	123.3
				5W	3601	2	0	1	106.8	3652	2	0	1	108.4	3716	2	0	1	111.3
	450	6,000		1	6356	1	0	1	122.9	6446	1	0	1	124.6	6559	1	0	1	126.8
				2	5931	1	0	1	114.7	6015	1	0	1	116.3	6121	1	0	1	118.3
				3	5782	1	0	2	111.8	5864	1	0	2	113.4	5967	1	0	2	115.4
				4W	5658	1	0	2	109.4	5738	1	0	2	110.9	5839	1	0	2	112.9
				1-HS	3678	0	0	0	71.1	3730	0	0	0	72.1	3796	0	0	0	73.4
				2-HS	2921	0	0	0	56.5	2962	0	0	0	57.3	3014	0	0	0	58.3
				3-HS	2811	0	0	1	54.3	2851	0	0	1	55.1	2901	0	0	1	56.1
				4W-HS	2754	0	0	1	53.3	2793	0	0	1	54.0	2842	0	0	1	55.0
				5Q	5958	2	0	1	115.2	6043	2	0	1	116.8	6149	2	0	1	118.9
				5W	5373	3	0	1	103.9	5449	3	0	1	105.4	5545	3	0	1	107.2
	470	Microcore Crossover		1	6604	1	0	1	122.1	6698	1	0	1	123.8	6816	1	0	1	126.0
				2	6162	1	0	1	113.9	6250	1	0	1	115.5	6360	1	0	1	117.6
				3	6008	1	0	2	111.0	6093	1	0	2	112.6	6200	1	0	2	114.6
				4W	5879	1	0	2	108.7	5962	1	0	2	110.2	6067	1	0	2	112.1
				1-HS	3822	0	0	0	70.6	3876	0	0	0	71.6	3944	0	0	0	72.9
				2-HS	3035	0	0	0	56.1	3078	0	0	0	56.9	3132	0	0	0	57.9
				3-HS	2920	0	0	1	54.0	2962	0	0	1	54.7	3014	0	0	1	55.7
				4W-HS	2862	0	0	1	52.9	2903	0	0	1	53.7	2953	0	0	1	54.6
				5Q	6191	2	0	1	114.4	6279	2	0	1	116.1	6389	2	0	1	118.1
				5W	5583	3	0	1	103.2	5662	3	0	1	104.7	5761	3	0	1	106.5
	615	7,500		1	8308	1	0	1	117.8	8426	1	0	1	119.5	8574	1	0	1	121.6
				2	7753	1	0	2	109.9	7863	1	0	2	111.5	8001	1	0	2	113.4
				3	7558	1	0	2	107.1	7665	1	0	2	108.7	7800	1	0	2	110.6
				4W	7396	1	0	2	104.8	7501	1	0	2	106.3	7632	1	0	2	108.2
				1-HS	4808	0	0	0	68.2	4876	0	0	0	69.1	4962	0	0	0	70.3
				2-HS	3818	0	0	0	54.1	3872	0	0	0	54.9	3940	0	0	0	55.9
				3-HS	3674	0	0	1	52.1	3726	0	0	1	52.8	3792	0	0	1	53.8
				4W-HS	3600	0	0	1	51.0	3652	0	0	1	51.8	3716	0	0	1	52.7
				5Q	7789	3	0	1	110.4	7899	3	0	1	112.0	8038	3	0	1	113.9
				5W	7023	3	0	1	99.6	7123	3	0	1	101.0	7248	3	0	1	102.8

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PRM32-LK

LED UPGRADE KIT

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LUMINAIRE PERFORMANCE – CLEAR LENS

LED #	Drive Current	Lumen Package	Lens	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)
36	285	4,000	Clear Lens	1	3673	1	0	0	109.0	3725	1	0	0	110.5	3790	1	0	0	112.5
				2	3427	1	0	1	101.7	3476	1	0	1	103.1	3537	1	0	1	104.9
				3	3341	1	0	1	99.1	3389	1	0	1	100.5	3448	1	0	1	103.2
				4W	3269	1	0	1	97.0	3316	1	0	1	98.4	3374	1	0	1	100.1
				1-HS	2125	0	0	0	63.1	2156	0	0	0	64.0	2193	0	0	0	65.1
				2-HS	1688	0	0	0	50.1	1712	0	0	0	50.8	1742	0	0	0	51.7
				3-HS	1624	0	0	0	48.2	1647	0	0	0	48.9	1676	0	0	0	49.7
				4W-HS	1592	0	0	1	47.2	1614	0	0	1	47.9	1643	0	0	1	48.7
				5Q	3443	2	0	0	102.2	3492	2	0	0	103.6	3553	2	0	0	105.4
				5W	3105	2	0	1	92.1	3149	2	0	1	93.4	3204	2	0	1	95.1
	450	6,000		1	5480	1	0	0	106.0	5558	1	0	0	107.5	5656	1	0	0	109.4
				2	5114	1	0	1	98.9	5186	1	0	1	100.3	5277	1	0	1	102.0
				3	4985	1	0	1	96.4	5056	1	0	1	97.8	5145	1	0	1	99.5
				4W	4878	1	0	2	94.3	4947	1	0	2	95.7	5034	1	0	2	97.3
				1-HS	3171	0	0	0	61.3	3216	0	0	0	62.2	3273	0	0	0	63.3
				2-HS	2518	0	0	0	48.7	2554	0	0	0	49.4	2599	0	0	0	50.2
				3-HS	2423	0	0	1	46.9	2458	0	0	1	47.5	2501	0	0	1	48.4
				4W-HS	2375	0	0	1	45.9	2409	0	0	1	46.6	2451	0	0	1	47.4
				5Q	5137	2	0	1	99.3	5210	2	0	1	100.7	5302	2	0	1	102.5
				5W	4633	3	0	1	89.6	4698	3	0	1	90.8	4781	3	0	1	92.4
	470	Microcore Crossover		1	5694	1	0	0	110.1	5775	1	0	0	111.7	5876	1	0	0	113.6
				2	5313	1	0	1	102.7	5389	1	0	1	104.2	5483	1	0	1	106.0
				3	5180	1	0	1	100.2	5253	1	0	1	101.6	5346	1	0	1	103.4
				4W	5069	1	0	2	98.0	5141	1	0	2	99.4	5231	1	0	2	101.1
				1-HS	3295	0	0	0	63.7	3342	0	0	0	64.6	3401	0	0	0	65.8
				2-HS	2617	0	0	0	50.6	2654	0	0	0	51.3	2700	0	0	0	52.2
				3-HS	2518	0	0	1	48.7	2554	0	0	1	49.4	2599	0	0	1	50.2
				4W-HS	2468	0	0	1	47.7	2503	0	0	1	48.4	2547	0	0	1	49.2
				5Q	5338	2	0	1	103.2	5414	2	0	1	104.7	5509	2	0	1	106.5
				5W	4813	3	0	1	93.1	4882	3	0	1	94.4	4967	3	0	1	96.0
	615	7,500		1	7164	1	0	1	101.6	7265	1	0	1	103.0	7393	1	0	1	104.8
				2	6685	1	0	1	94.8	6779	1	0	1	96.1	6899	1	0	1	97.8
				3	6517	1	0	2	92.4	6609	1	0	2	93.7	6725	1	0	2	95.3
				4W	6377	1	0	2	90.4	6467	1	0	2	91.7	6581	1	0	2	93.3
				1-HS	4146	0	0	0	58.8	4205	0	0	0	59.6	4278	0	0	0	60.7
				2-HS	3292	0	0	0	46.7	3339	0	0	0	47.3	3397	0	0	0	48.2
				3-HS	3168	0	0	1	44.9	3213	0	0	1	45.5	3269	0	0	1	46.3
				4W-HS	3104	0	0	1	44.0	3148	0	0	1	44.6	3204	0	0	1	45.4
				5Q	6716	2	0	1	95.2	6811	2	0	1	96.6	6930	2	0	1	98.2
				5W	6056	3	0	1	85.8	6142	3	0	1	87.1	6249	3	0	1	88.6

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LUMINAIRE PERFORMANCE – SAG LENS

LED #	Drive Current	Lumen Package	Lens	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)
36	285	4,000	Sag Lens	1	3975	1	0	0	118.0	4032	1	0	0	119.6	4102	1	0	0	121.7
				2	3709	1	0	1	110.1	3762	1	0	1	111.6	3828	1	0	1	113.6
				3	3616	1	0	1	107.3	3668	1	0	1	108.8	3732	1	0	1	111.7
				4W	3539	1	0	1	105.0	3589	1	0	1	106.5	3652	1	0	1	108.4
				1-HS	2301	0	0	0	68.3	2333	0	0	0	69.2	2374	0	0	0	70.4
				2-HS	1827	0	0	0	54.2	1853	0	0	0	55.0	1885	0	0	0	55.9
				3-HS	1758	0	0	0	52.2	1783	0	0	0	52.9	1814	0	0	0	53.8
				4W-HS	1723	0	0	1	51.1	1747	0	0	1	51.8	1778	0	0	1	52.8
				5Q	3727	2	0	0	110.6	3779	2	0	0	112.2	3846	2	0	0	114.1
				5W	3360	2	0	1	99.7	3408	2	0	1	101.1	3468	2	0	1	102.9
	450	6,000		1	5932	1	0	0	114.7	6016	1	0	0	116.3	6121	1	0	1	118.4
				2	5535	1	0	1	107.0	5613	1	0	1	108.5	5712	1	0	1	110.4
				3	5396	1	0	1	104.3	5473	1	0	1	105.8	5569	1	0	1	107.7
				4W	5280	1	0	2	102.1	5355	1	0	2	103.5	5449	1	0	2	105.4
				1-HS	3433	0	0	0	66.4	3481	0	0	0	67.3	3543	0	0	0	68.5
				2-HS	2726	0	0	0	52.7	2764	0	0	0	53.4	2813	0	0	0	54.4
				3-HS	2623	0	0	1	50.7	2660	0	0	1	51.4	2707	0	0	1	52.3
				4W-HS	2570	0	0	1	49.7	2607	0	0	1	50.4	2653	0	0	1	51.3
				5Q	5561	2	0	1	107.5	5639	2	0	1	109.0	5738	2	0	1	111.0
				5W	5014	3	0	1	96.9	5085	3	0	1	98.3	5175	3	0	1	100.0
	470	Microcore Crossover		1	6163	1	0	1	119.2	6251	1	0	1	120.9	6360	1	0	1	123.0
				2	5751	1	0	1	111.2	5833	1	0	1	112.8	5935	1	0	1	114.8
				3	5607	1	0	1	108.4	5686	1	0	2	109.9	5786	1	0	2	111.9
				4W	5486	1	0	2	106.1	5564	1	0	2	107.6	5662	1	0	2	109.5
				1-HS	3567	0	0	0	69.0	3617	0	0	0	69.9	3681	0	0	0	71.2
				2-HS	2832	0	0	0	54.8	2872	0	0	0	55.5	2923	0	0	0	56.5
				3-HS	2726	0	0	1	52.7	2764	0	0	1	53.4	2813	0	0	1	54.4
				4W-HS	2671	0	0	1	51.6	2709	0	0	1	52.4	2756	0	0	1	53.3
				5Q	5778	2	0	1	111.7	5860	2	0	1	113.3	5963	2	0	1	115.3
				5W	5210	3	0	1	100.7	5284	3	0	1	102.2	5377	3	0	1	104.0
	615	7,500		1	7754	1	0	1	109.9	7864	1	0	1	111.5	8002	1	0	1	113.4
				2	7235	1	0	1	102.6	7338	1	0	1	104.0	7467	1	0	1	105.9
				3	7054	1	0	2	100.0	7154	1	0	2	101.4	7279	1	0	2	103.2
				4W	6902	1	0	2	97.8	7000	1	0	2	99.2	7123	1	0	2	101.0
				1-HS	4487	0	0	0	63.6	4551	0	0	0	64.5	4631	0	0	0	65.6
				2-HS	3563	0	0	0	50.5	3613	0	0	0	51.2	3677	0	0	0	52.1
				3-HS	3429	0	0	1	48.6	3478	0	0	1	49.3	3539	0	0	1	50.2
				4W-HS	3360	0	0	1	47.6	3408	0	0	1	48.3	3468	0	0	1	49.2
				5Q	7269	2	0	1	103.0	7372	2	0	1	104.5	7501	3	0	1	106.3
				5W	6554	3	0	1	92.9	6647	3	0	1	94.2	6764	3	0	1	95.9

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PHOTOMETRY

PRM32-36L-615-4K7-1

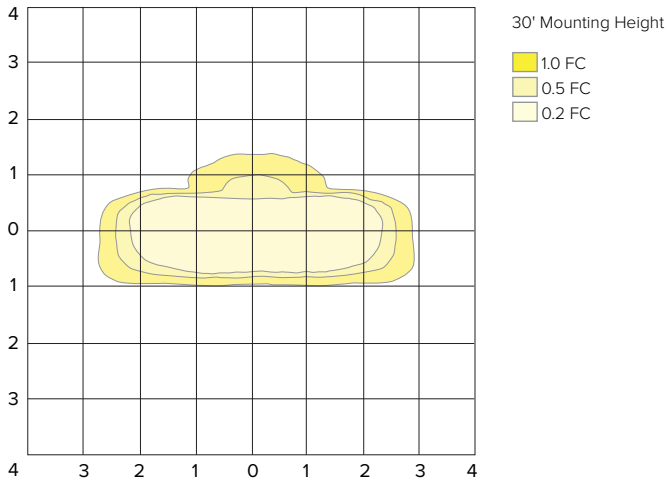
LUMINAIRE DATA

Description	**4000 Kelvin, 70CRI**
Delivered Lumens	**8426**
Watts	**70.54**
Efficacy	**119.4**
IES Type	**I**
BUG Rating	**B1-U0-G1**
Mounting Height	**15 ft**
Grid Scale	**15 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	7454	88%
Downward House Side	972	12%
Downward Total	8426	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8426	100%

ISOFOOT CANDLE PLOT



PRM32-36L-615-4K7-2

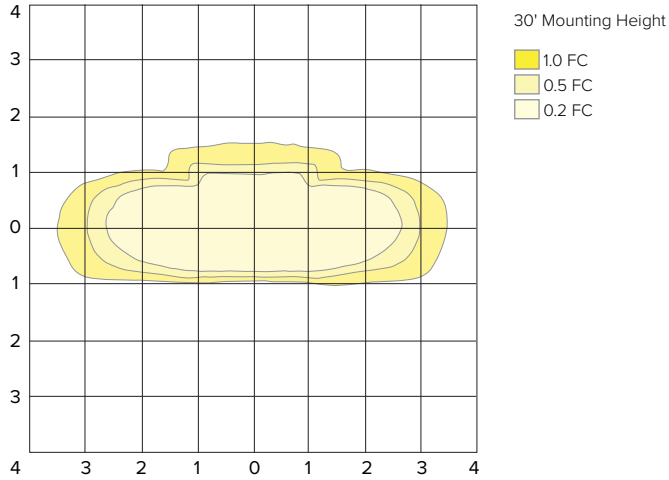
LUMINAIRE DATA

Description	**4000 Kelvin, 70CRI**
Delivered Lumens	**7863**
Watts	**70.54**
Efficacy	**111.5**
IES Type	**II**
BUG Rating	**B1-U0-G2**
Mounting Height	**15 ft**
Grid Scale	**15 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6438	82%
Downward House Side	1425	18%
Downward Total	7863	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	7863	100%

ISOFOOT CANDLE PLOT



PRM32-36L-615-4K7-3

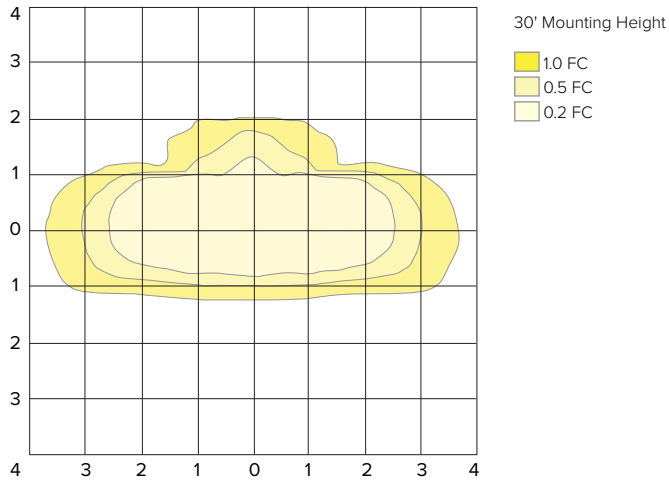
LUMINAIRE DATA

Description	**4000 Kelvin, 70CRI**
Delivered Lumens	**7665**
Watts	**70.54**
Efficacy	**108.7**
IES Type	**III**
BUG Rating	**B1-U0-G2**
Mounting Height	**15 ft**
Grid Scale	**15 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6481	85%
Downward House Side	1184	15%
Downward Total	7665	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	7665	100%

ISOFOOT CANDLE PLOT



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PHOTOMETRY

PRM32-36L-615-4K7-4

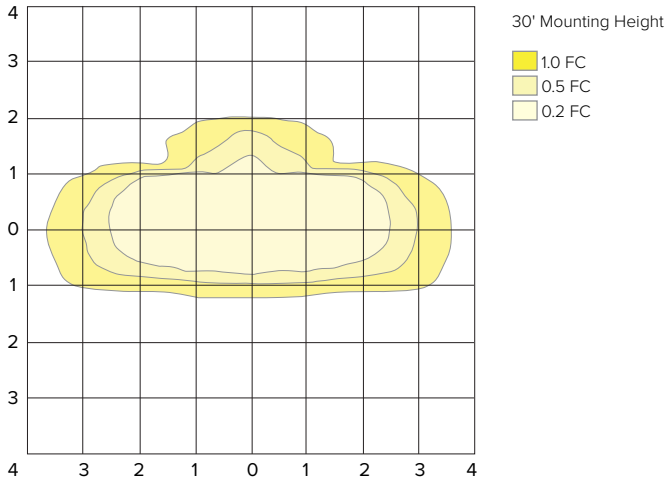
LUMINAIRE DATA

Description	**4000 Kelvin, 70CRI**
Delivered Lumens	**7501**
Watts	**70.54**
Efficacy	**106.3**
IES Type	**IV**
BUG Rating	**B1-U0-G2**
Mounting Height	**15 ft**
Grid Scale	**15 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6603	88%
Downward House Side	898	12%
Downward Total	7501	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	7501	100%

ISOFOOT CANDLE PLOT



PRM32-36L-615-4K7-5Q

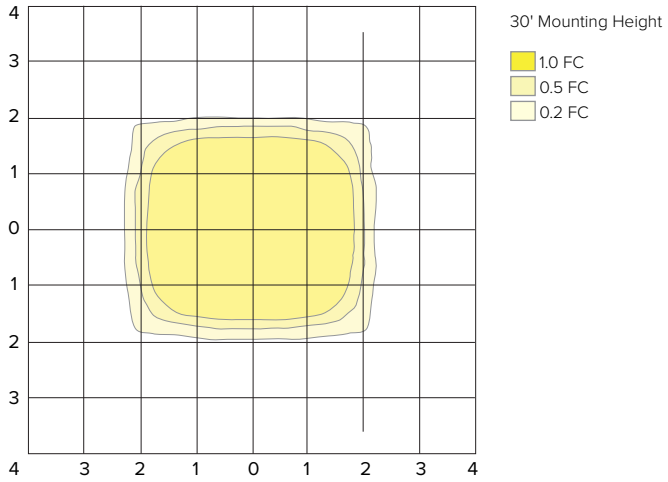
LUMINAIRE DATA

Description	**4000 Kelvin, 70CRI**
Delivered Lumens	**7899**
Watts	**70.54**
Efficacy	**112.0**
IES Type	**VS**
BUG Rating	**B3-U0-G1**
Mounting Height	**15 ft**
Grid Scale	**15 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	3950	50%
Downward House Side	3950	50%
Downward Total	7899	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	7899	100%

ISOFOOT CANDLE PLOT



PRM32-36L-615-4K7-5W

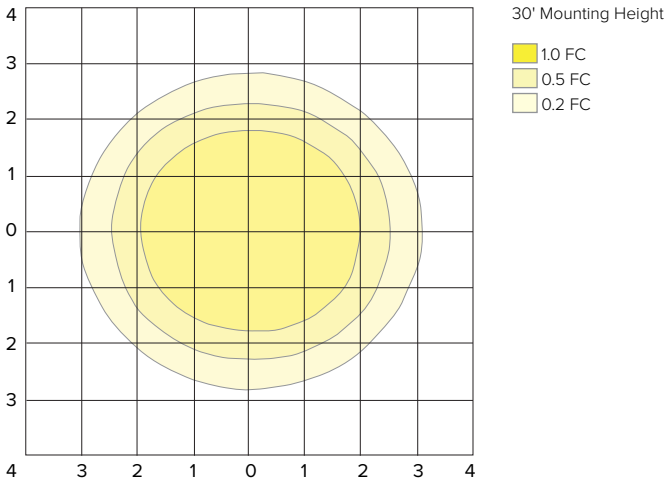
LUMINAIRE DATA

Description	**4000 Kelvin, 70CRI**
Delivered Lumens	**7123**
Watts	**70.54**
Efficacy	**101**
IES Type	**VS**
BUG Rating	**B3-U0-G1**
Mounting Height	**15 ft**
Grid Scale	**15 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	3562	50%
Downward House Side	3562	50%
Downward Total	7123	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	7123	100%

ISOFOOT CANDLE PLOT



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PRM32-LK

LED UPGRADE KIT

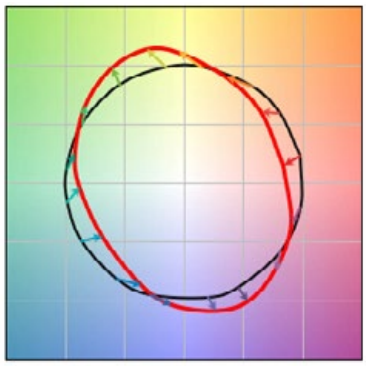
DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

TM-30 DATA

COLOR VECTOR GRAPHIC



Reference Illuminant — Test Source

TEST SOURCE

MBM TEST RESULTS	
CCT (K)	3947
CIE Ra	72
Duv	0.0004
x	0.3831
y	0.3793
Rf	68
Rg	99

ELECTRICAL DATA

Electrical											Dimming				
Light Engine	System Watts	System Current	Line Voltage		Amps AC				Min. Power Factor	Max THD (%)	Dimming Range	Source current out of 0-10V		Absolute voltage range on 0-10V (+)	
			VAC	HZ	120	208	240	277				Min	Max	Min	Max
36L	33.7	285 mA	120-277	50/60	0.28	0.16	0.14	0.12	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	51.7	450 mA			0.43	0.25	0.22	0.19							
	54.1	470 mA			0.45	0.26	0.23	0.20							
	70.5	615 mA			0.59	0.34	0.29	0.25							

AMBER MULTIPLIER	
CCT	MULTIPLIER
5000K	1
AM	0.1727

2700K MULTIPLIER	
CCT	MULTIPLIER
5000K	1
2700K	0.897

LENS OPTION MULTIPLIER	
CLEAR LENS	DIFFUSED LENS
0.8622	0.9332

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