

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P381380

Luminaire Tested: **PRV-PA1A-740-U-T2U-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA1A-740-U-T2U-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

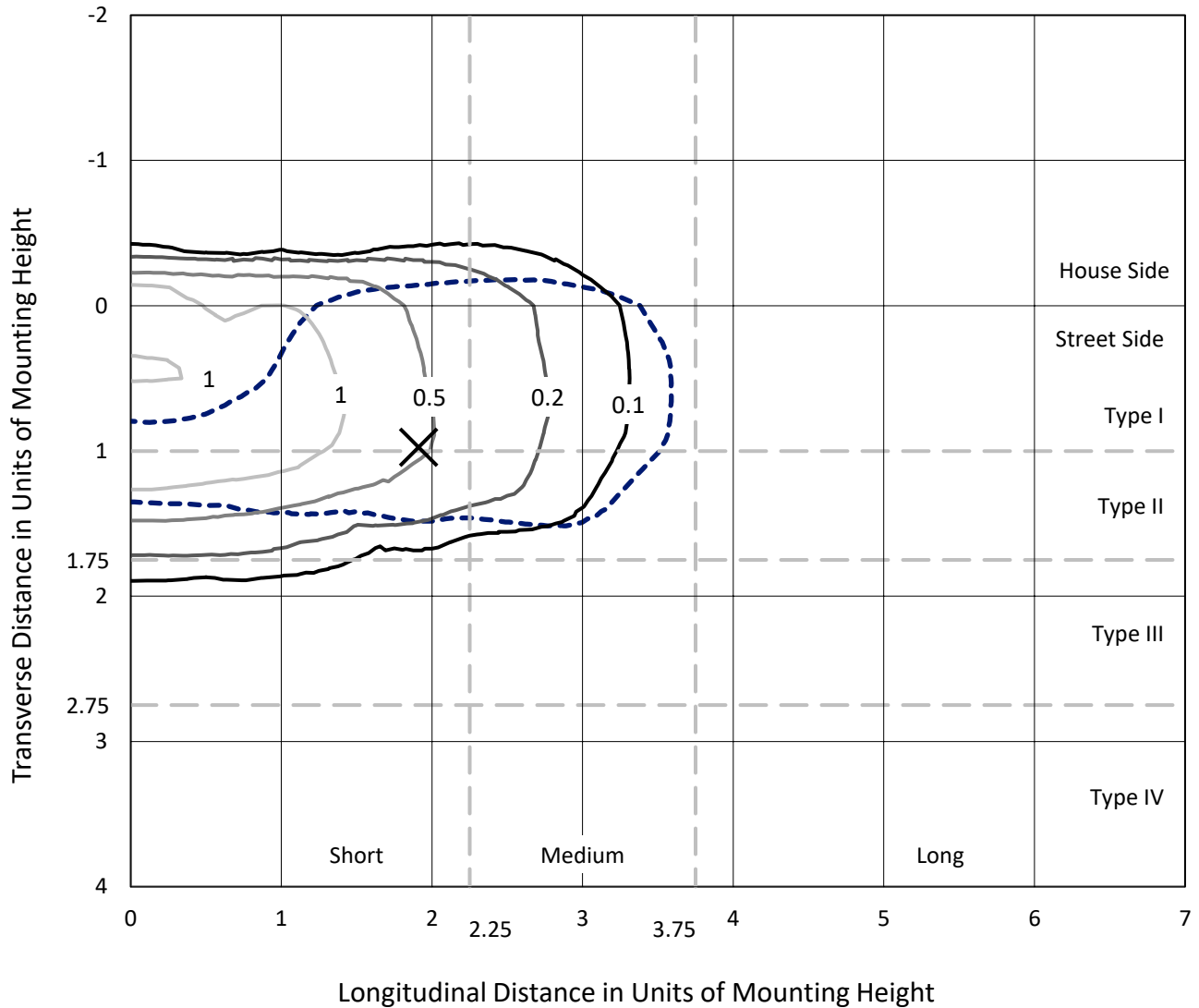
Lumens per Lamp: N/A  
Luminaire Lumens: 5297 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

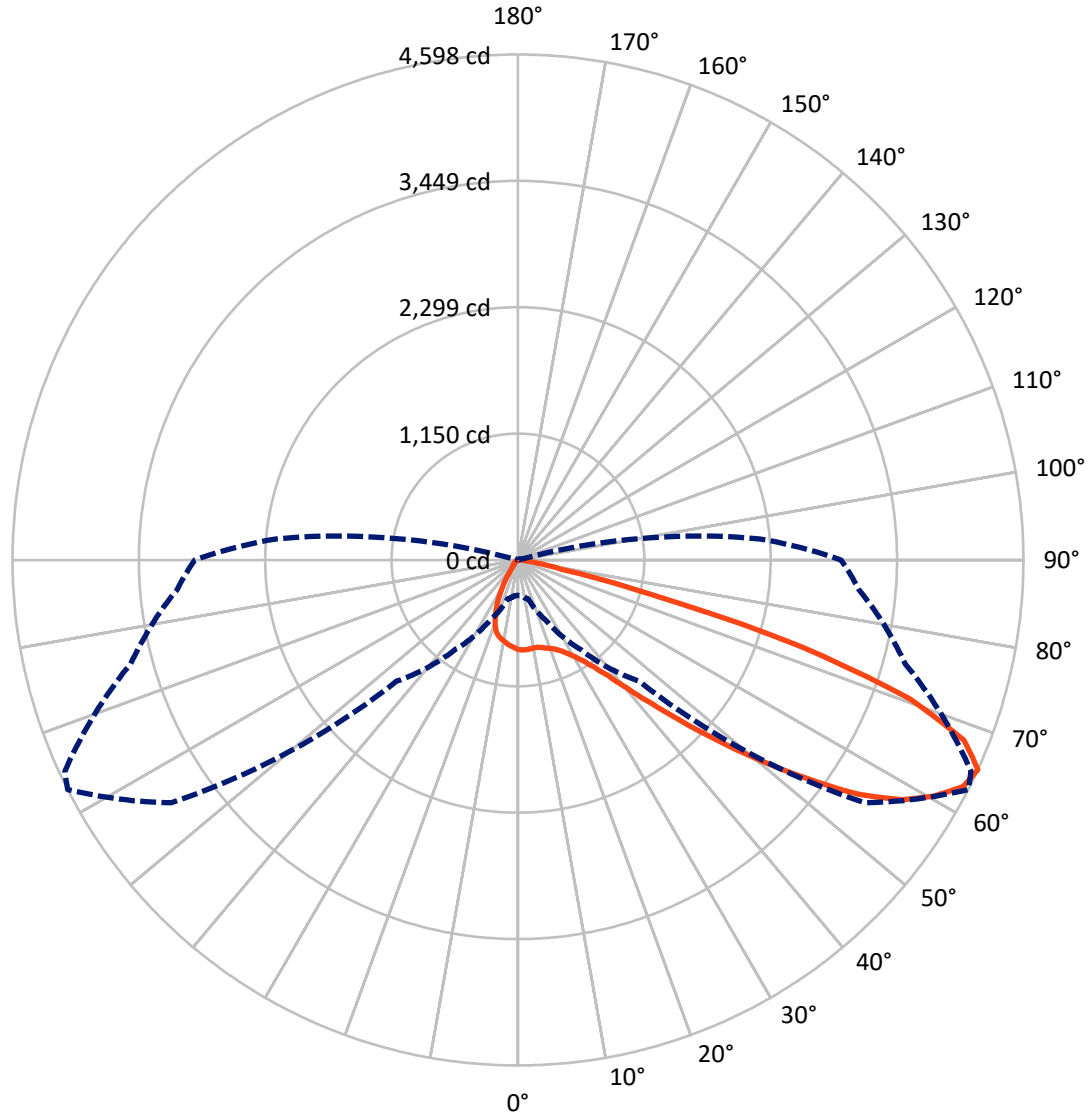
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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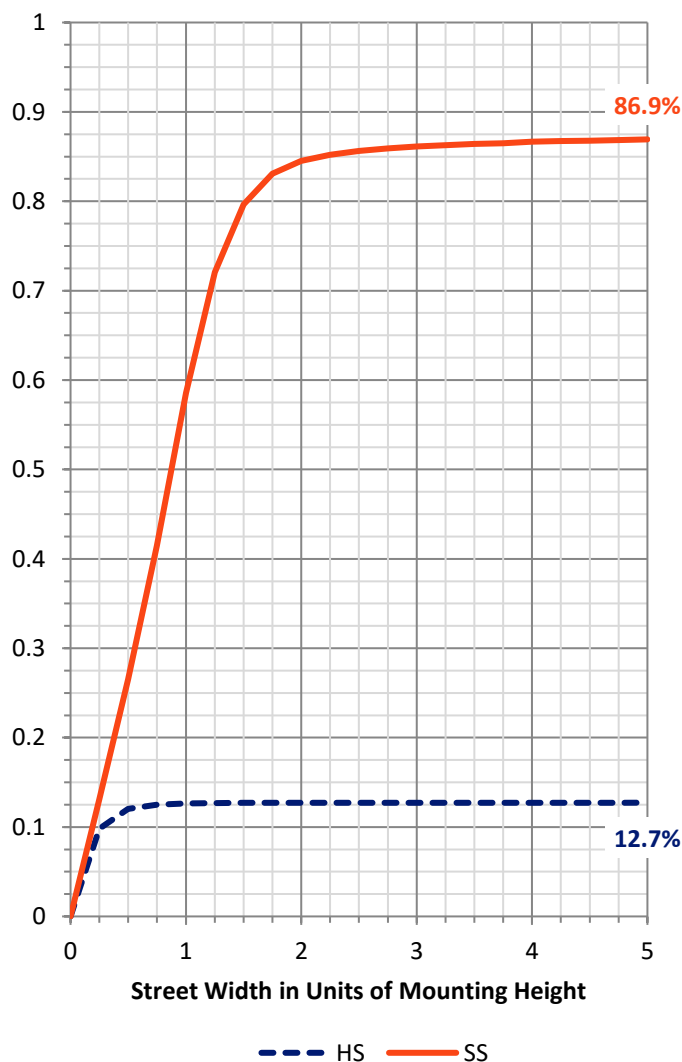
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	681.7	0.0	681.7
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	4615.3	0.0	4615.3
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	5297.0	0.0	5297.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.5	1.4
10°-20°	183.7	3.5
20°-30°	272.2	5.1
30°-40°	505.5	9.5
40°-50°	1070.9	20.2
50°-60°	1480.7	28.0
60°-70°	1185.4	22.4
70°-80°	492.5	9.3
80°-90°	31.6	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5297.0	100.0
0°-180°	5297.0	100.0

**Coefficient of Utilization**



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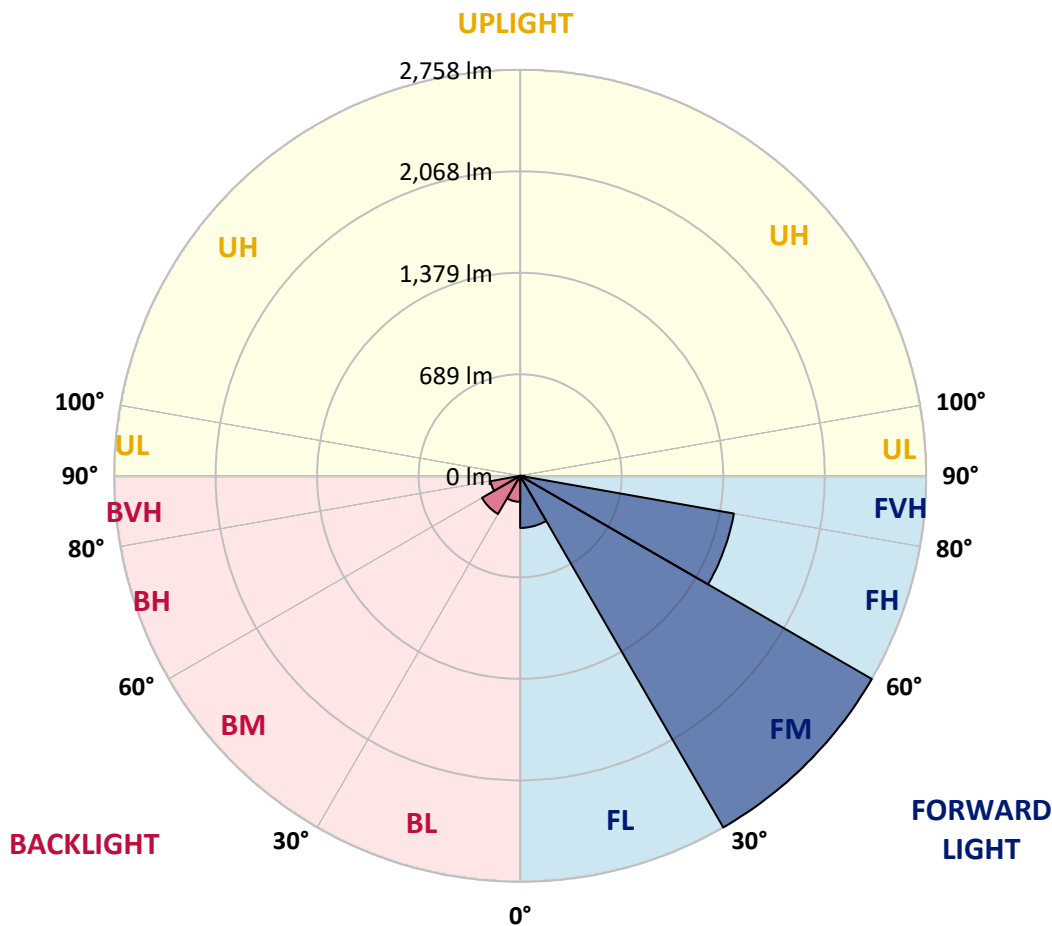
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	353.7	6.7			
FM (30°-60°)	2757.6	52.1			
FH (60°-80°)	1473.7	27.8			G1/1800
FVH (80°-90°)	30.2	0.6			G1/100
BL (0°-30°)	176.7	3.3	B1/500		
BM (30°-60°)	299.5	5.7	B1/1000		
BH (60°-80°)	204.1	3.9	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	816	816	816	816	816	816	816	816	816	816	816
2.5°	830	828	826	825	825	824	820	819	817	815	813
5°	822	819	818	819	820	822	820	820	818	816	812
7.5°	802	800	801	804	805	812	813	816	816	814	811
10°	778	777	777	782	787	797	804	812	813	813	808
12.5°	760	759	762	768	778	791	803	815	817	818	810
15°	749	749	753	765	779	797	811	827	829	828	817
17.5°	739	740	748	768	784	808	825	843	844	843	825
20°	735	737	749	775	793	820	842	860	861	857	833
22.5°	746	747	762	790	807	837	865	882	883	877	845
25°	784	784	797	821	836	866	896	916	916	909	872
27.5°	873	865	862	869	874	906	938	963	962	952	907
30°	1045	1025	993	957	939	961	991	1023	1022	1006	950
32.5°	1334	1305	1229	1134	1057	1032	1060	1095	1096	1077	1019
35°	1739	1693	1557	1425	1249	1154	1162	1200	1212	1202	1135
37.5°	2129	2087	1957	1774	1535	1341	1307	1340	1354	1354	1283
40°	2522	2473	2358	2174	1922	1633	1511	1538	1553	1556	1463
42.5°	2837	2805	2717	2574	2338	2145	1805	1790	1804	1793	1672
45°	3055	3030	2969	2915	2800	2703	2198	2097	2106	2068	1907
47.5°	3100	3072	3059	3134	3216	3240	2681	2462	2453	2369	2151
50°	2904	2907	2955	3169	3511	3727	3241	2874	2841	2654	2378
52.5°	2481	2529	2650	2997	3601	4081	3801	3311	3260	2931	2548
55°	1941	2003	2202	2601	3413	4239	4273	3765	3649	3139	2680
57.5°	1443	1462	1694	2058	2968	4084	4515	4115	3966	3305	2811
60°	899	911	1156	1567	2248	3511	4515	4356	4214	3454	2931
62.5°	559	563	655	1074	1528	2604	4328	4543	4429	3561	3034
65°	322	326	369	607	994	1559	3850	4598	4547	3646	3114
67.5°	235	237	254	341	650	801	2892	4377	4441	3688	3112
70°	204	207	229	266	469	492	1472	3780	3959	3628	3019
72.5°	157	161	194	250	344	354	533	2690	2961	3253	2764
75°	108	112	145	206	284	265	293	1238	1562	2182	2104
77.5°	69	70	91	150	245	188	201	404	567	987	993
80°	46	47	56	97	168	174	124	187	205	288	200
82.5°	28	28	38	61	102	144	81	98	105	111	52
85°	11	11	23	40	64	67	51	57	60	65	24
87.5°	3	3	13	22	28	31	31	28	30	37	12
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	816	816	816	816	816	816	816	816	816	816	816
2.5°	812	809	805	801	797	794	791	791	789	786	784
5°	810	805	796	789	778	770	764	759	756	749	748
7.5°	807	801	788	774	756	742	728	718	708	700	698
10°	802	795	776	756	731	705	672	634	599	579	573
12.5°	802	793	768	741	705	641	557	473	408	379	371
15°	807	795	762	725	658	528	392	281	210	188	183
17.5°	812	795	753	703	572	383	223	148	125	120	120
20°	814	793	741	662	457	238	133	111	102	99	99
22.5°	822	794	732	603	332	140	105	93	84	81	81
25°	842	806	734	528	213	106	89	77	68	64	64
27.5°	874	833	745	441	134	91	75	62	55	51	51
30°	910	863	750	341	100	77	61	49	44	41	40
32.5°	973	915	746	234	82	65	49	39	35	34	34
35°	1074	1006	738	147	68	52	39	32	29	28	27
37.5°	1211	1139	714	97	56	41	32	27	24	23	23
40°	1378	1291	668	74	48	33	27	23	21	20	20
42.5°	1569	1460	595	64	40	28	23	19	18	17	17
45°	1778	1637	494	57	34	23	19	17	15	15	14
47.5°	2000	1815	380	50	29	20	17	14	13	12	12
50°	2214	1974	267	43	24	17	14	12	11	10	10
52.5°	2365	2070	189	37	20	15	11	9	8	8	8
55°	2486	2130	132	31	17	13	9	7	7	6	6
57.5°	2600	2169	97	26	14	10	7	5	5	4	4
60°	2718	2190	74	21	12	8	5	4	3	3	3
62.5°	2837	2203	57	17	10	6	4	3	2	1	1
65°	2941	2207	44	13	8	4	3	1	0	0	0
67.5°	2972	2161	34	10	6	3	2	0	0	0	0
70°	2888	2039	26	8	5	2	1	0	0	0	0
72.5°	2563	1710	20	5	4	2	1	0	0	0	0
75°	1834	912	14	4	3	1	0	0	0	0	0
77.5°	844	353	10	3	2	1	0	0	0	0	0
80°	165	88	4	2	1	0	0	0	0	0	0
82.5°	38	15	2	2	1	0	0	0	0	0	0
85°	13	5	1	1	0	0	0	0	0	0	0
87.5°	5	2	1	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)