

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: E429-127

Luminaire Tested: **HPQF-GS/A-150**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: E429-127
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: HPQF-GS/A-150
Description: RECESSED COMMERCIAL WITH FLAT LENS
Light Source: 150 WATT HPS COATED ED-23.5
Ballast/Driver: -

Summary

Lumens per Lamp: 15000 (1 lamp)
Luminaire Lumens: 11226.9 lumens
Efficiency: 74.8%
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

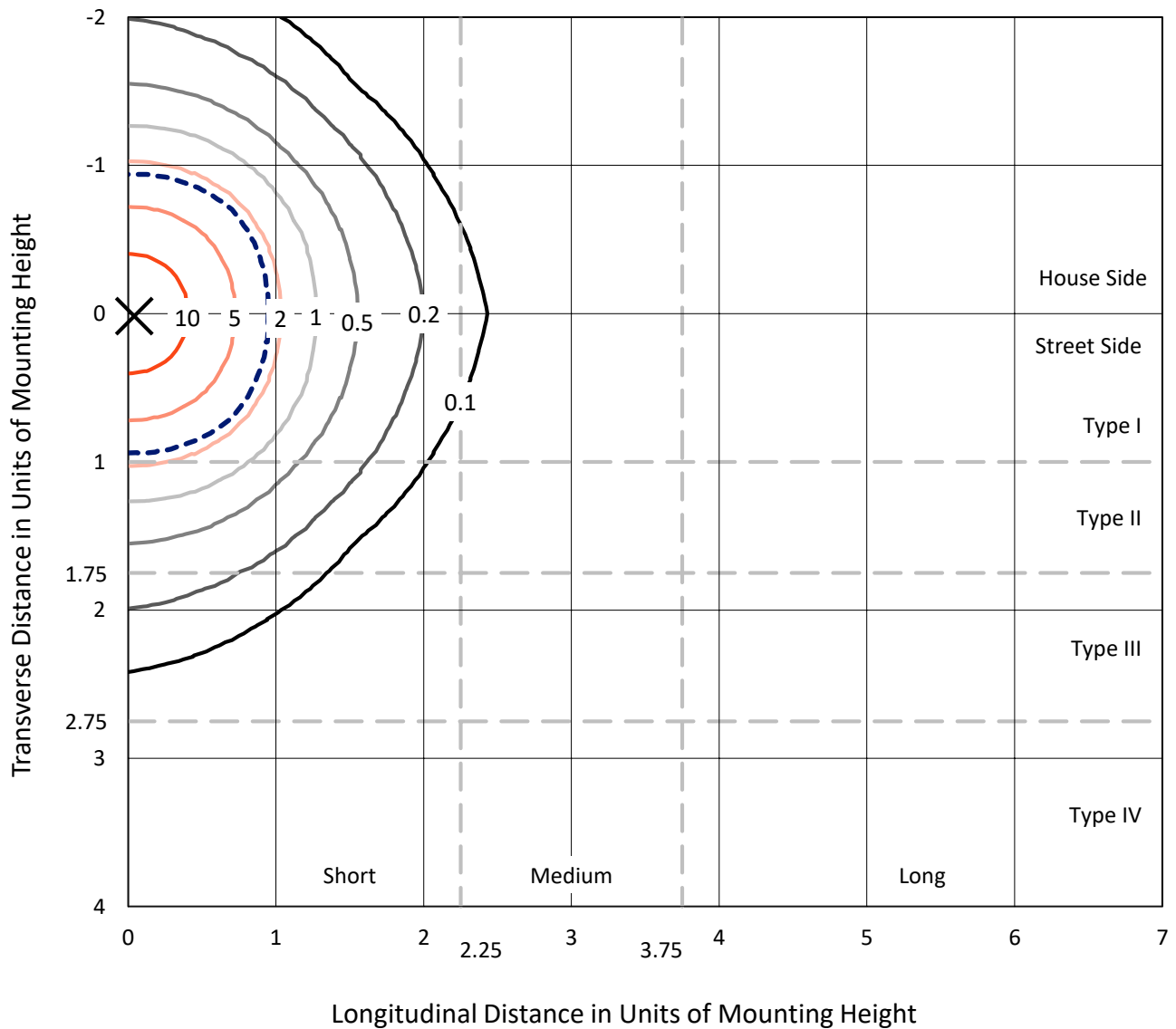
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

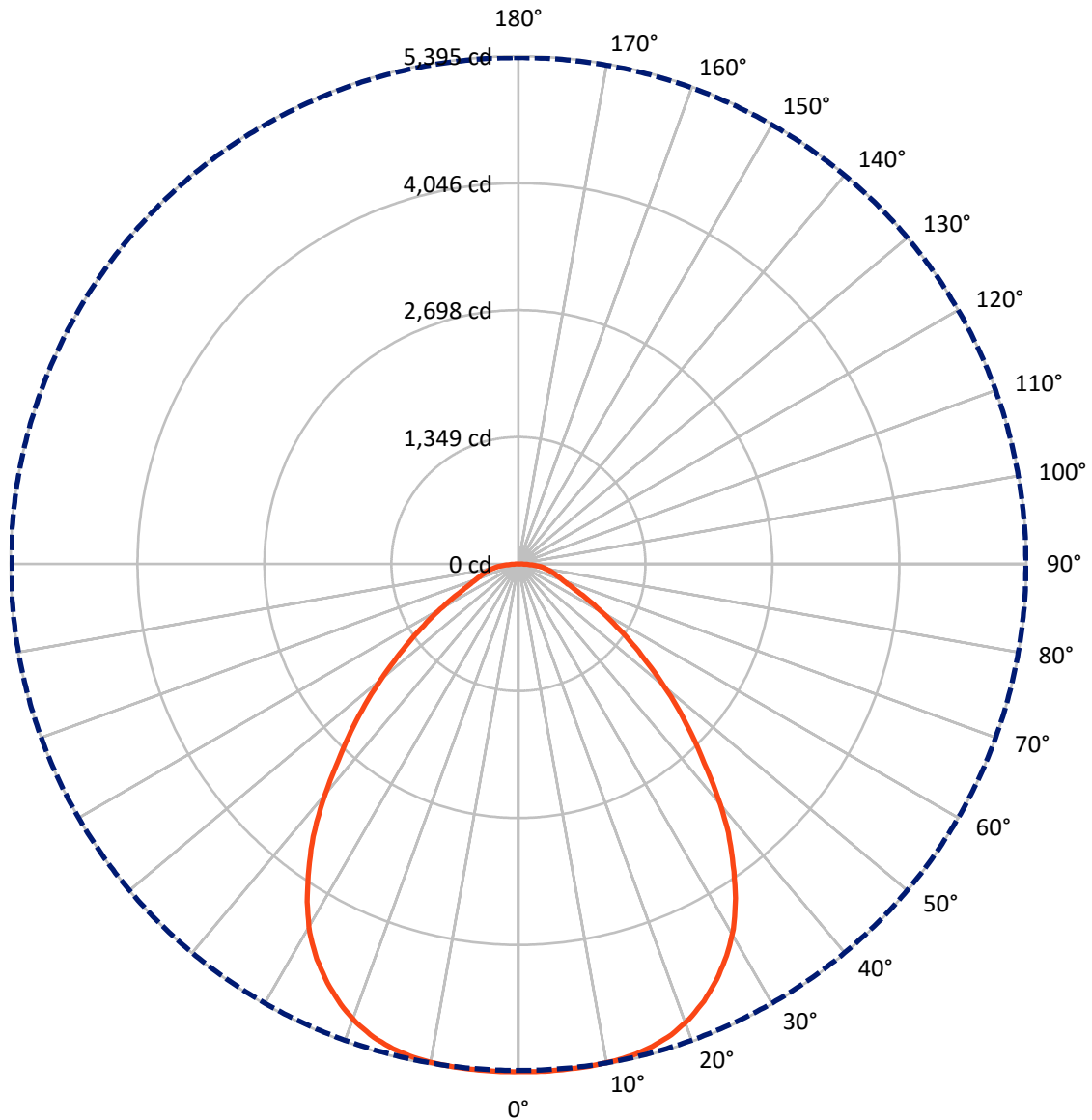
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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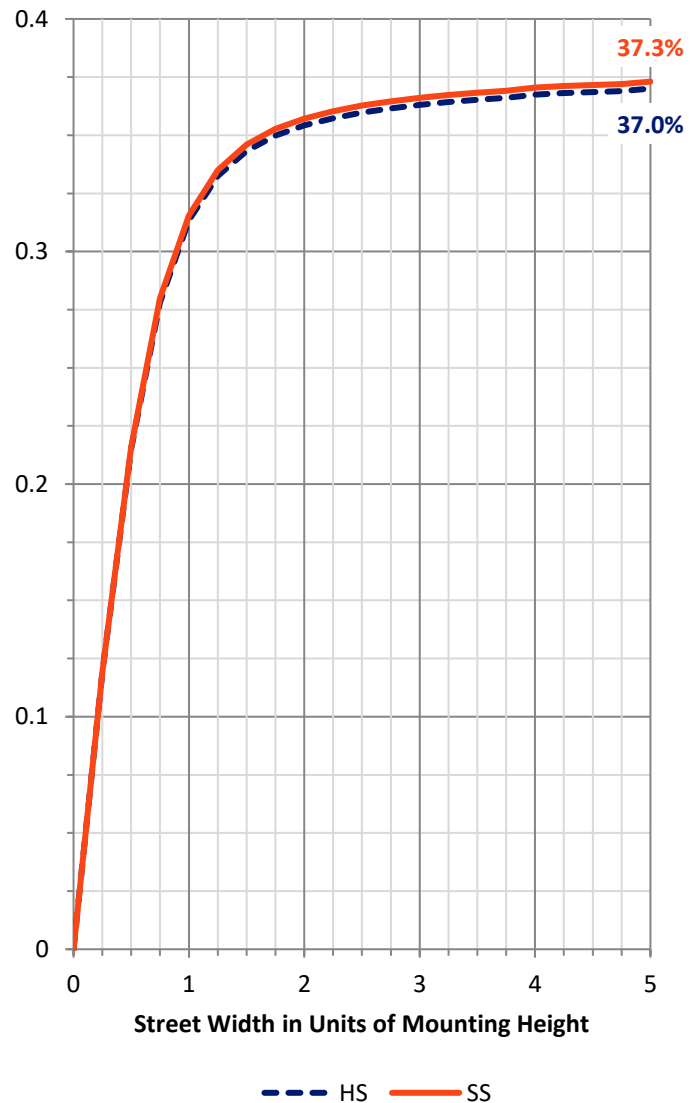
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5613.4	0.0	5613.4
	% Lamp	37.4	0.0	37.4
Street Side	Lumens	5613.4	0.0	5613.4
	% Lamp	37.4	0.0	37.4
Total	Lumens	11226.9	0.0	11226.9
	% Lamp	74.8	0.0	74.8

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	514.0	4.6	3.4
10°-20°	1499.6	13.4	10.0
20°-30°	2240.5	20.0	14.9
30°-40°	2438.6	21.7	16.3
40°-50°	1974.2	17.6	13.2
50°-60°	1268.4	11.3	8.5
60°-70°	693.1	6.2	4.6
70°-80°	427.4	3.8	2.8
80°-90°	171.1	1.5	1.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	11226.9	100.0	74.8
0°-180°	11226.9	100.0	74.8

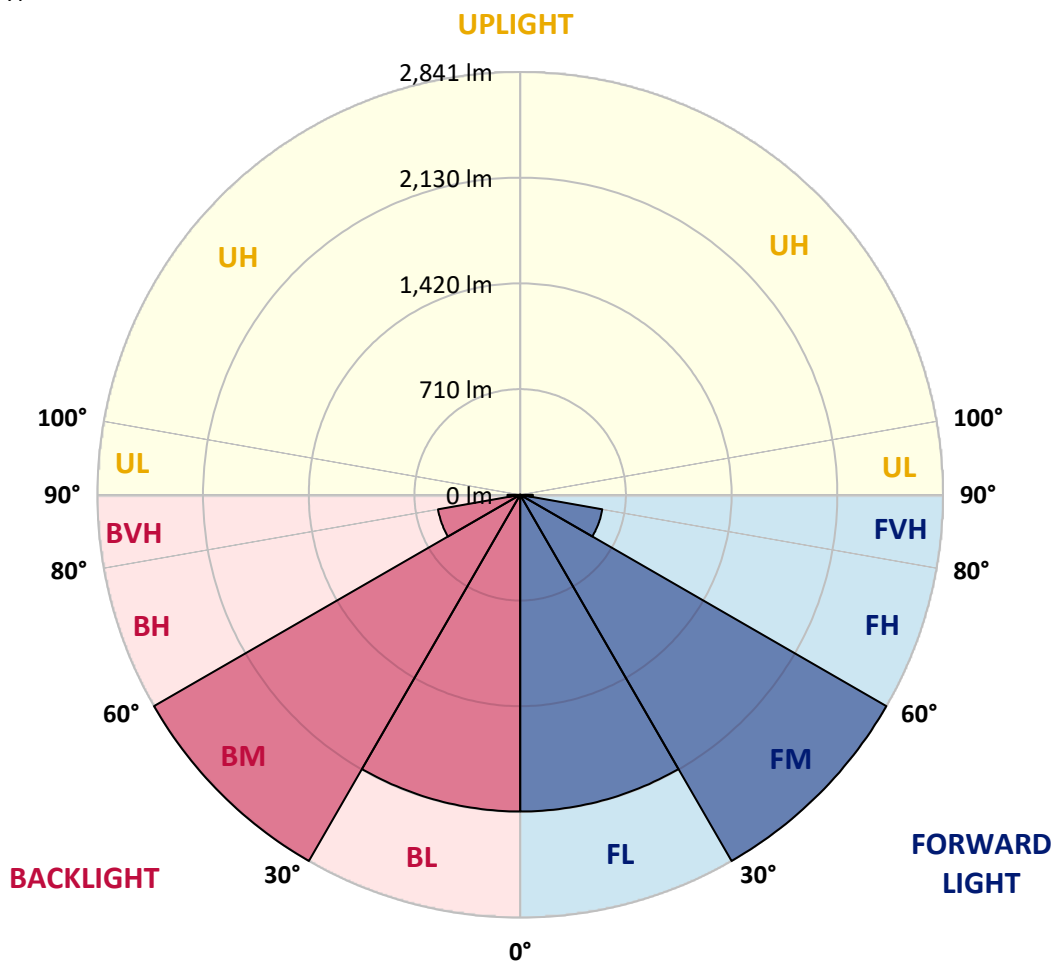


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2127.0	14.2			
FM	(30°-60°)	2840.6	18.9			
FH	(60°-80°)	560.3	3.7			G0/660
FVH	(80°-90°)	85.5	0.6			G1/100
BL	(0°-30°)	2127.0	14.2	B3/2500		
BM	(30°-60°)	2840.6	18.9	B3/5000		
BH	(60°-80°)	560.3	3.7	B2/1000		G0/660
BVH	(80°-90°)	85.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		3773.1	25.2			

BUG Rating: B3-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5393	5393	5393	5393	5393	5393	5393	5393	5393
2.5°	5379	5384	5393	5395	5391	5395	5393	5384	5379
5°	5375	5387	5391	5391	5387	5391	5391	5387	5375
7.5°	5375	5383	5389	5387	5383	5387	5389	5383	5375
10°	5365	5375	5384	5378	5371	5378	5384	5375	5365
12.5°	5345	5358	5369	5359	5346	5359	5369	5358	5345
15°	5297	5315	5336	5319	5308	5319	5336	5315	5297
17.5°	5237	5258	5275	5258	5237	5258	5275	5258	5237
20°	5138	5158	5192	5166	5137	5166	5192	5158	5138
22.5°	5003	5036	5069	5043	4999	5043	5069	5036	5003
25°	4827	4883	4922	4890	4856	4890	4922	4883	4827
27.5°	4621	4684	4746	4713	4657	4713	4746	4684	4621
30°	4401	4484	4553	4502	4412	4502	4553	4484	4401
32.5°	4116	4208	4320	4235	4136	4235	4320	4208	4116
35°	3833	3911	4030	3930	3881	3930	4030	3911	3833
37.5°	3490	3593	3675	3622	3555	3622	3675	3593	3490
40°	3142	3245	3306	3266	3204	3266	3306	3245	3142
42.5°	2795	2879	2979	2898	2819	2898	2979	2879	2795
45°	2435	2536	2675	2576	2457	2576	2675	2536	2435
47.5°	2094	2211	2331	2269	2130	2269	2331	2211	2094
50°	1832	1908	2008	1962	1854	1962	2008	1908	1832
52.5°	1591	1658	1692	1676	1609	1676	1692	1658	1591
55°	1396	1391	1390	1425	1415	1425	1390	1391	1396
57.5°	1219	1173	1117	1196	1237	1196	1117	1173	1219
60°	1071	954	891	993	1070	993	891	954	1071
62.5°	916	775	708	817	947	817	708	775	916
65°	808	657	557	669	826	669	557	657	808
67.5°	714	572	455	564	726	564	455	572	714
70°	629	511	409	489	644	489	409	511	629
72.5°	537	447	399	431	562	431	399	447	537
75°	458	397	375	385	469	385	375	397	458
77.5°	378	352	348	339	379	339	348	352	378
80°	299	294	308	286	284	286	308	294	299
82.5°	227	244	265	243	222	243	265	244	227
85°	152	167	179	162	147	162	179	167	152
87.5°	70	80	73	72	62	72	73	80	70
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)