

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-400**

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-400
Description: RECESSED COMMERCIAL WITH FLAT LENS
Light Source: 400 WATT HPS COATED ED-37
Ballast/Driver: -

Summary

Lumens per Lamp: 47500 (1 lamp)
Luminaire Lumens: 36935.6 lumens
Efficiency: 77.8%
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

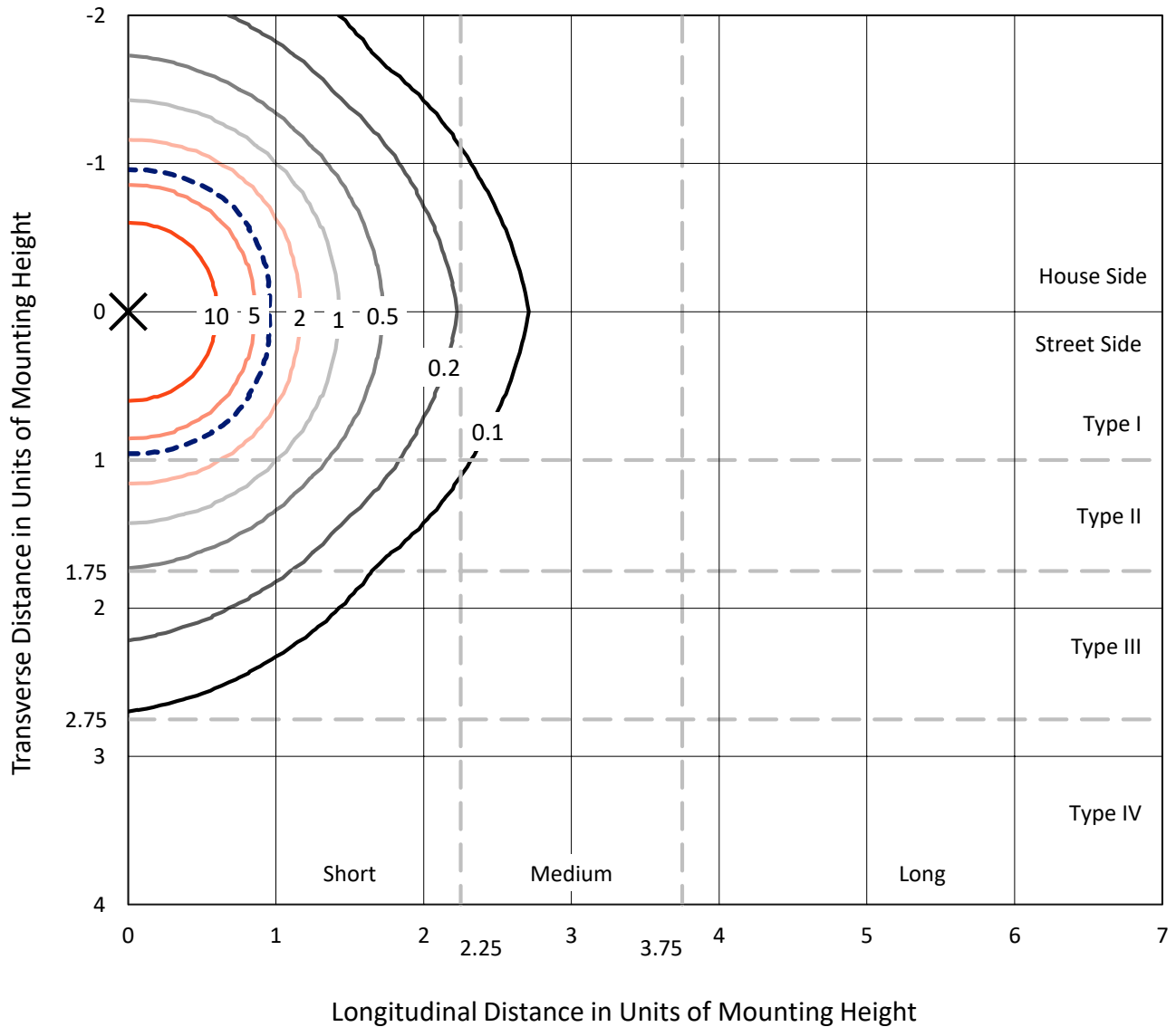
Input Watts (W): 465
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

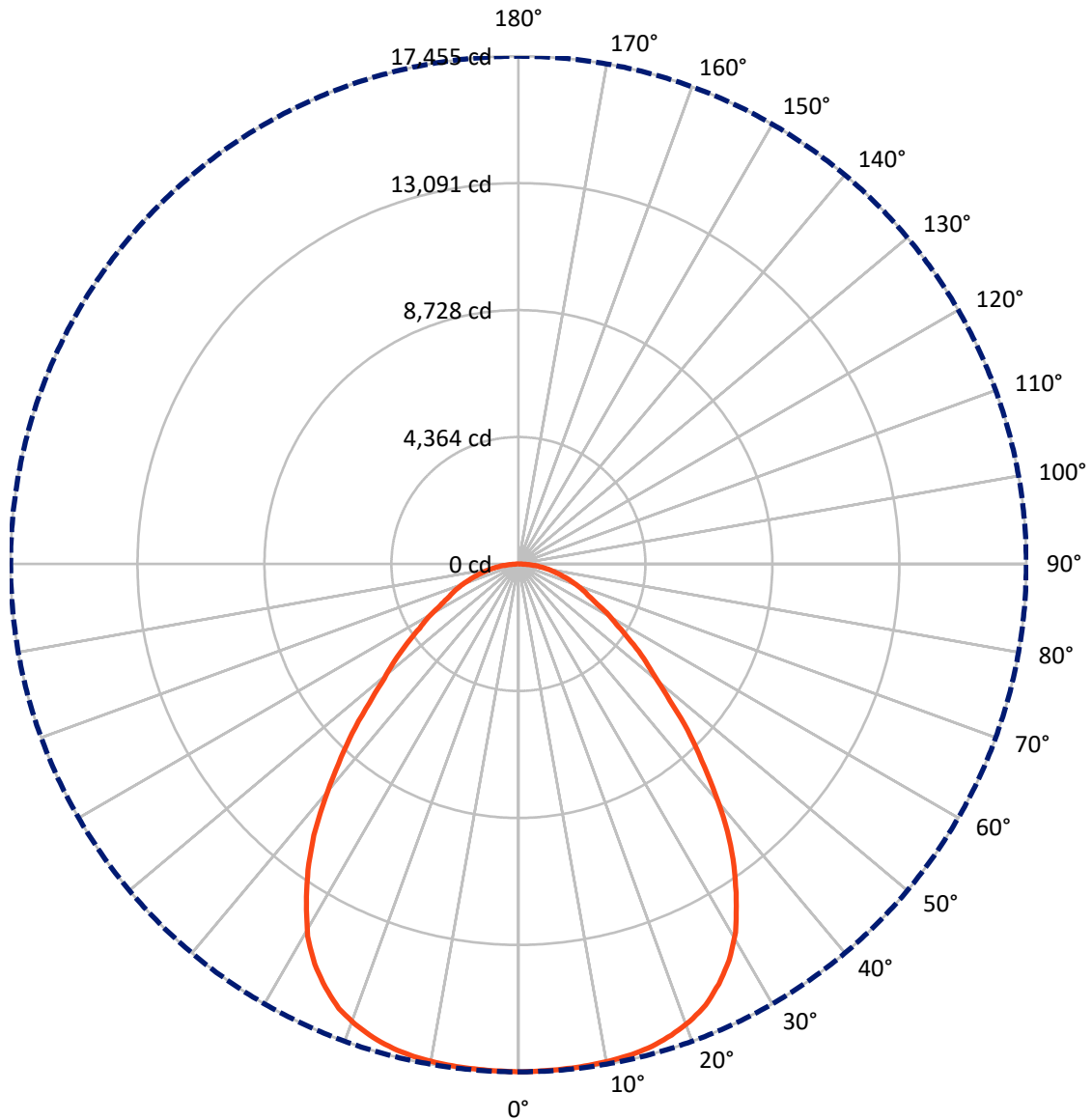
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 19.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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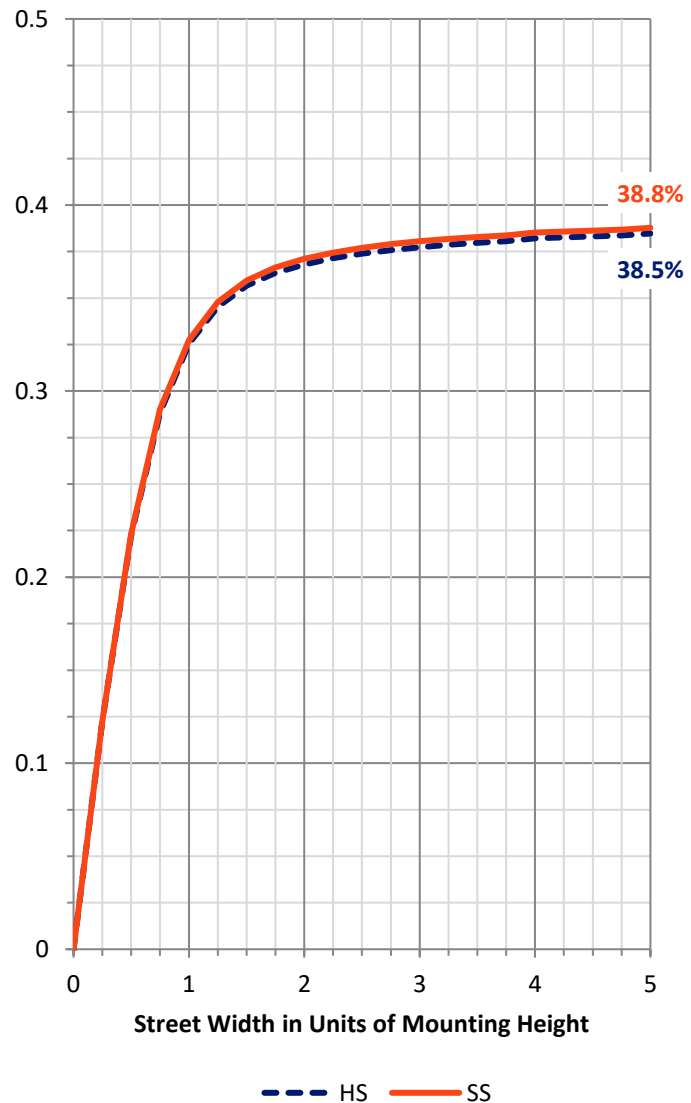
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18467.8	0.0	18467.8
	% Lamp	38.9	0.0	38.9
Street Side	Lumens	18467.8	0.0	18467.8
	% Lamp	38.9	0.0	38.9
Total	Lumens	36935.6	0.0	36935.6
	% Lamp	77.8	0.0	77.8

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	1661.6	4.5	3.5
10°-20°	4852.0	13.1	10.2
20°-30°	7360.6	19.9	15.5
30°-40°	8075.3	21.9	17.0
40°-50°	6526.9	17.7	13.7
50°-60°	4193.1	11.4	8.8
60°-70°	2299.2	6.2	4.8
70°-80°	1427.3	3.9	3.0
80°-90°	539.8	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°	36935.6	100.0	77.8
0°-180°	36935.6	100.0	77.8

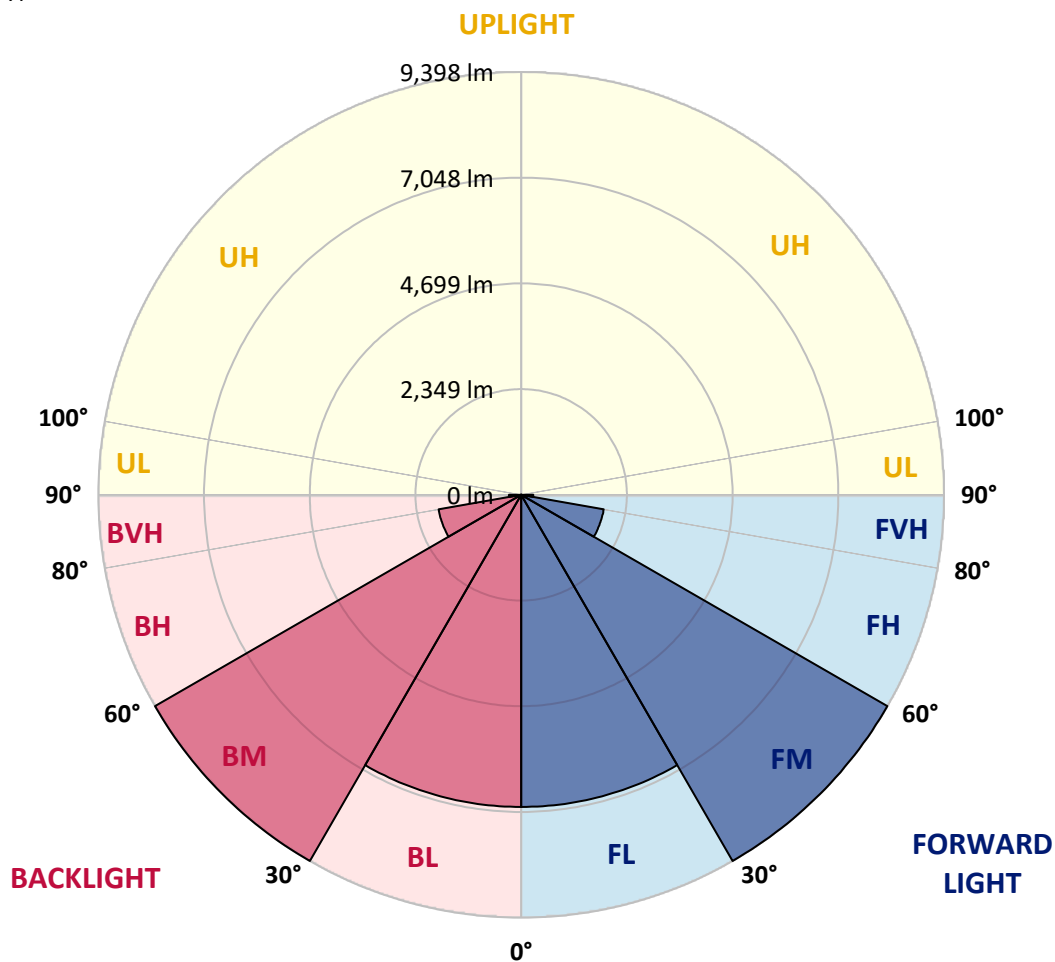


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6937.0	14.6			
FM (30°-60°)	9397.6	19.8			
FH (60°-80°)	1863.2	3.9			G2/5000
FVH (80°-90°)	269.9	0.6			G3/500
BL (0°-30°)	6937.0	14.6	B5		
BM (30°-60°)	9397.6	19.8	B5		
BH (60°-80°)	1863.2	3.9	B3/2500		G2/5000
BVH (80°-90°)	269.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	10564.4	22.2			

BUG Rating: B5-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	17455	17455	17455	17455	17455	17455	17455	17455	17455
2.5°	17439	17439	17449	17449	17424	17449	17449	17439	17439
5°	17424	17419	17431	17434	17407	17434	17431	17419	17424
7.5°	17401	17401	17409	17412	17379	17412	17409	17401	17401
10°	17364	17361	17383	17370	17333	17370	17383	17361	17364
12.5°	17305	17299	17314	17296	17258	17296	17314	17299	17305
15°	17198	17196	17202	17181	17153	17181	17202	17196	17198
17.5°	17025	17020	17044	17020	16972	17020	17044	17020	17025
20°	16788	16790	16817	16767	16740	16767	16817	16790	16788
22.5°	16475	16500	16491	16470	16405	16470	16491	16500	16475
25°	15993	16068	16118	16036	15932	16036	16118	16068	15993
27.5°	15428	15532	15610	15483	15367	15483	15610	15532	15428
30°	14704	14848	14989	14810	14674	14810	14989	14848	14704
32.5°	13748	13992	14212	14014	13731	14014	14212	13992	13748
35°	12767	13029	13299	13019	12761	13019	13299	13029	12767
37.5°	11676	11970	12154	11977	11631	11977	12154	11970	11676
40°	10433	10715	10964	10813	10433	10813	10964	10715	10433
42.5°	9235	9487	9888	9650	9312	9650	9888	9487	9235
45°	8151	8423	8779	8463	8083	8463	8779	8423	8151
47.5°	7006	7337	7649	7480	7061	7480	7649	7337	7006
50°	6064	6365	6593	6453	6142	6453	6593	6365	6064
52.5°	5394	5480	5544	5544	5348	5544	5544	5480	5394
55°	4693	4588	4556	4705	4693	4705	4556	4588	4693
57.5°	4045	3840	3703	3943	4060	3943	3703	3840	4045
60°	3571	3150	2976	3295	3534	3295	2976	3150	3571
62.5°	3043	2569	2314	2680	3096	2680	2314	2569	3043
65°	2659	2162	1844	2215	2719	2215	1844	2162	2659
67.5°	2394	1904	1543	1901	2395	1901	1543	1904	2394
70°	2094	1690	1431	1645	2139	1645	1431	1690	2094
72.5°	1781	1489	1356	1448	1831	1448	1356	1489	1781
75°	1490	1338	1246	1287	1513	1287	1246	1338	1490
77.5°	1243	1165	1169	1128	1275	1128	1169	1165	1243
80°	988	1003	1035	961	990	961	1035	1003	988
82.5°	731	792	832	762	705	762	832	792	731
85°	473	520	523	497	440	497	523	520	473
87.5°	188	215	217	217	196	217	217	215	188
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)