

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: HALO COMMERCIAL

Report Number: P241752

Luminaire Tested: **PRS440D010-S4M24-44SMDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-44)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS440D010-S4M24-44SMDH-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3759.7 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 1.06
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

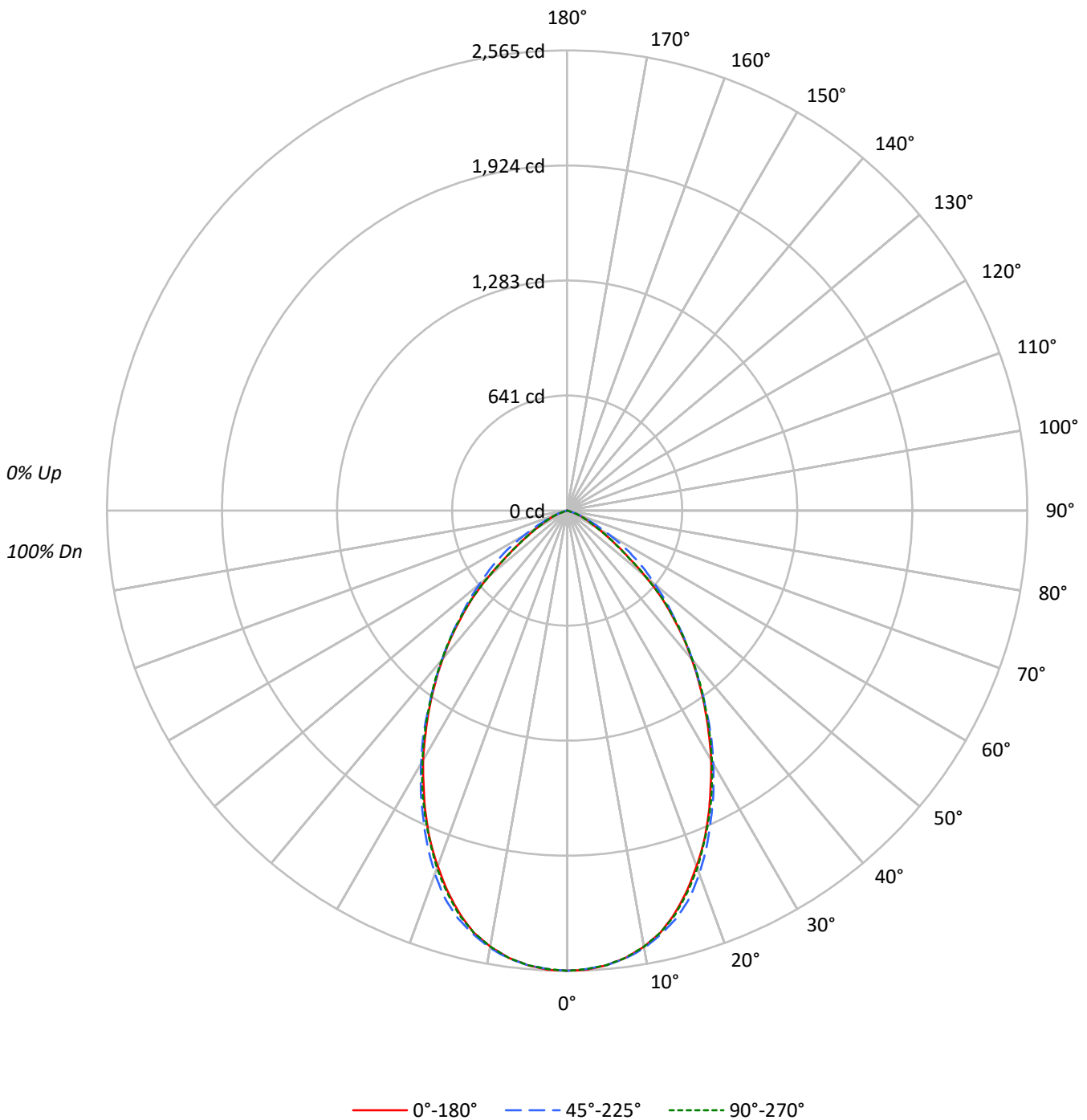
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	83	79	96	88	83	78	85	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	196341	196341	196341
5°	195370	195370	195370
10°	191831	192406	191831
15°	184043	186405	184630
20°	171839	175488	172751
25°	157671	160197	158305
30°	141910	143890	142565
35°	124904	125951	125605
40°	107824	108563	108563
45°	89327	91340	90539
50°	67578	76033	67578
55°	44839	61293	44345
60°	29729	42864	29729
65°	20955	25701	20285
70°	11705	13361	11705
75°	1094	4407	1094
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.5	6.4
10°-20°	654.3	17.4
20°-30°	865.6	23.0
30°-40°	843.5	22.4
40°-50°	650.0	17.3
50°-60°	355.3	9.4
60°-70°	131.4	3.5
70°-80°	19.1	0.5
80°-90°	0.0	0.0
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°-30°	1760.4	46.8
0°-40°	2603.9	69.3
0°-60°	3609.1	96.0
0°-90°	3759.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3759.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2565	2565	2565	2565	2565	
5°	2543	2543	2543	2543	2543	240
15°	2322	2337	2352	2341	2330	650
25°	1867	1889	1897	1897	1874	855
35°	1337	1352	1348	1363	1344	834
45°	825	848	844	851	836	636
55°	336	377	459	381	332	313
65°	116	127	142	127	112	116
75°	4	8	15	8	4	14
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2565.1	2565.1	2565.1	2565.1	2565.1
2.5°	2561.4	2557.7	2557.7	2557.7	2557.7
5°	2542.7	2542.7	2542.7	2542.7	2542.7
7.5°	2512.9	2512.9	2516.6	2512.9	2512.9
10°	2468.1	2471.8	2475.5	2475.5	2468.1
12.5°	2408.3	2415.8	2419.5	2415.8	2408.3
15°	2322.5	2337.4	2352.3	2341.1	2329.9
17.5°	2221.6	2240.3	2266.4	2244.0	2229.1
20°	2109.6	2132.0	2154.4	2139.5	2120.8
22.5°	1993.9	2012.5	2031.2	2023.7	1997.6
25°	1866.9	1889.3	1896.8	1896.8	1874.4
27.5°	1732.5	1758.6	1766.1	1762.4	1747.4
30°	1605.6	1624.2	1628.0	1631.7	1613.0
32.5°	1467.4	1486.1	1493.5	1497.3	1478.6
35°	1336.7	1351.7	1347.9	1362.9	1344.2
37.5°	1206.0	1221.0	1213.5	1228.4	1217.2
40°	1079.1	1086.5	1086.5	1097.7	1086.5
42.5°	955.9	963.3	967.1	970.8	963.3
45°	825.2	847.6	843.8	851.3	836.4
47.5°	705.7	724.4	739.3	731.8	709.4
50°	567.5	612.4	638.5	619.8	567.5
52.5°	436.9	489.1	548.9	492.9	436.9
55°	336.0	377.1	459.3	380.9	332.3
57.5°	253.9	287.5	369.7	287.5	253.9
60°	194.2	220.3	280.0	220.3	194.2
62.5°	149.4	168.0	201.6	168.0	149.4
65°	115.7	127.0	141.9	127.0	112.0
67.5°	82.1	93.3	93.3	93.3	82.1
70°	52.3	63.5	59.7	63.5	52.3
72.5°	22.4	33.6	37.3	33.6	22.4
75°	3.7	7.5	14.9	7.5	3.7
77.5°	0.0	3.7	3.7	3.7	3.7
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)