

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: P238317

Luminaire Tested: **PRS640D010-S6M24-64SNDMB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-64SNDMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

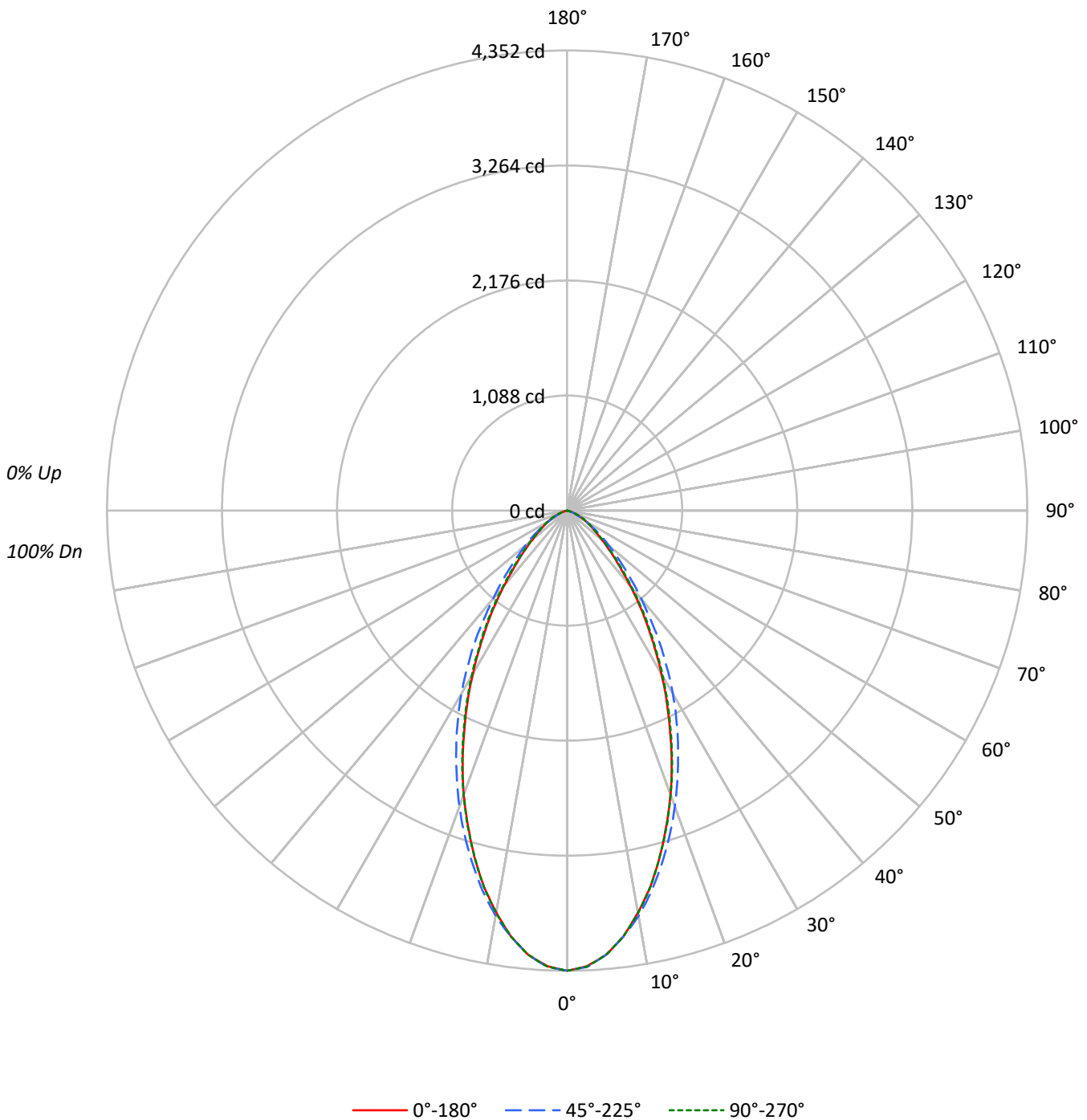
Lumens per Lamp: N/A
Luminaire Lumens: 4315.1 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.89
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	96	92	104	98	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	82	97	91	85	81	88	83	80		85	82	78		83	80	77	75
4	93	85	78	73	92	84	78	73	81	76	72		79	75	71		77	74	70	69
5	88	78	72	67	86	77	71	66	75	70	66		74	69	65		72	68	65	63
6	83	73	66	61	81	72	65	61	70	65	60		69	64	60		67	63	59	58
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63	59	55	53
8	74	63	57	52	73	63	56	52	61	56	52		60	55	51		59	55	51	50
9	70	59	53	48	69	59	52	48	58	52	48		57	52	48		56	51	48	46
10	66	56	49	45	65	55	49	45	54	49	45		54	48	45		53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	187370	187370	187370
5°	182264	182264	182264
10°	168789	170175	168964
15°	151085	154090	150911
20°	130992	136435	131175
25°	109484	117950	110234
30°	88590	99418	89768
35°	69307	80130	70763
40°	52080	61202	53412
45°	38336	46051	39785
50°	28649	34483	29975
55°	22294	25267	22887
60°	18075	17386	18411
65°	13316	11696	13713
70°	8976	7478	8976
75°	3959	3294	3959
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.7	9.1
10°-20°	953.8	22.1
20°-30°	1094.9	25.4
30°-40°	886.4	20.5
40°-50°	543.3	12.6
50°-60°	291.6	6.8
60°-70°	126.0	2.9
70°-80°	27.3	0.6
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°	2440.4	56.6
0°-40°	3326.9	77.1
0°-60°	4161.8	96.4
0°-90°	4315.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4315.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4352	4352	4352	4352	4352	
5°	4217	4217	4217	4217	4217	391
15°	3390	3421	3457	3425	3386	943
25°	2305	2384	2483	2388	2320	1055
35°	1319	1402	1524	1418	1346	827
45°	630	677	756	685	653	495
55°	297	321	337	325	305	272
65°	131	123	115	123	135	134
75°	24	24	20	24	24	29
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°	4351.8	4351.8	4351.8	4351.8	4351.8
2.5°	4312.2	4316.1	4320.1	4316.1	4316.1
5°	4217.1	4217.1	4217.1	4217.1	4217.1
7.5°	4062.7	4070.6	4066.7	4066.7	4062.7
10°	3860.7	3880.5	3892.4	3880.5	3864.7
12.5°	3639.0	3662.8	3686.5	3658.8	3643.0
15°	3389.5	3421.2	3456.9	3425.2	3385.6
17.5°	3120.3	3171.8	3223.2	3171.8	3128.2
20°	2858.9	2918.3	2977.7	2914.4	2862.9
22.5°	2581.8	2637.2	2728.3	2645.1	2593.6
25°	2304.6	2383.8	2482.8	2387.7	2320.4
27.5°	2039.3	2122.4	2241.2	2138.3	2059.1
30°	1781.9	1873.0	1999.7	1888.8	1805.6
32.5°	1540.3	1631.4	1754.2	1647.3	1564.1
35°	1318.6	1401.7	1524.5	1417.6	1346.3
37.5°	1116.6	1184.0	1290.9	1199.8	1144.4
40°	926.6	989.9	1088.9	1001.8	950.3
42.5°	760.3	819.7	914.7	835.5	791.9
45°	629.6	677.1	756.3	685.0	653.4
47.5°	518.7	562.3	625.6	566.2	538.5
50°	427.7	463.3	514.8	471.2	447.5
52.5°	356.4	388.1	427.7	392.0	368.3
55°	297.0	320.7	336.6	324.7	304.9
57.5°	249.5	257.4	261.3	261.3	257.4
60°	209.9	201.9	201.9	205.9	213.8
62.5°	174.2	158.4	154.4	162.3	178.2
65°	130.7	122.8	114.8	122.8	134.6
67.5°	99.0	87.1	83.2	91.1	103.0
70°	71.3	63.4	59.4	63.4	71.3
72.5°	43.6	43.6	35.6	43.6	43.6
75°	23.8	23.8	19.8	23.8	23.8
77.5°	7.9	7.9	4.0	7.9	11.9
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)