

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: P238313

Luminaire Tested: **PRS610D010-S6M12-64SNDMB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238313
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: PRS610D010-S6M12-64SNDMB
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

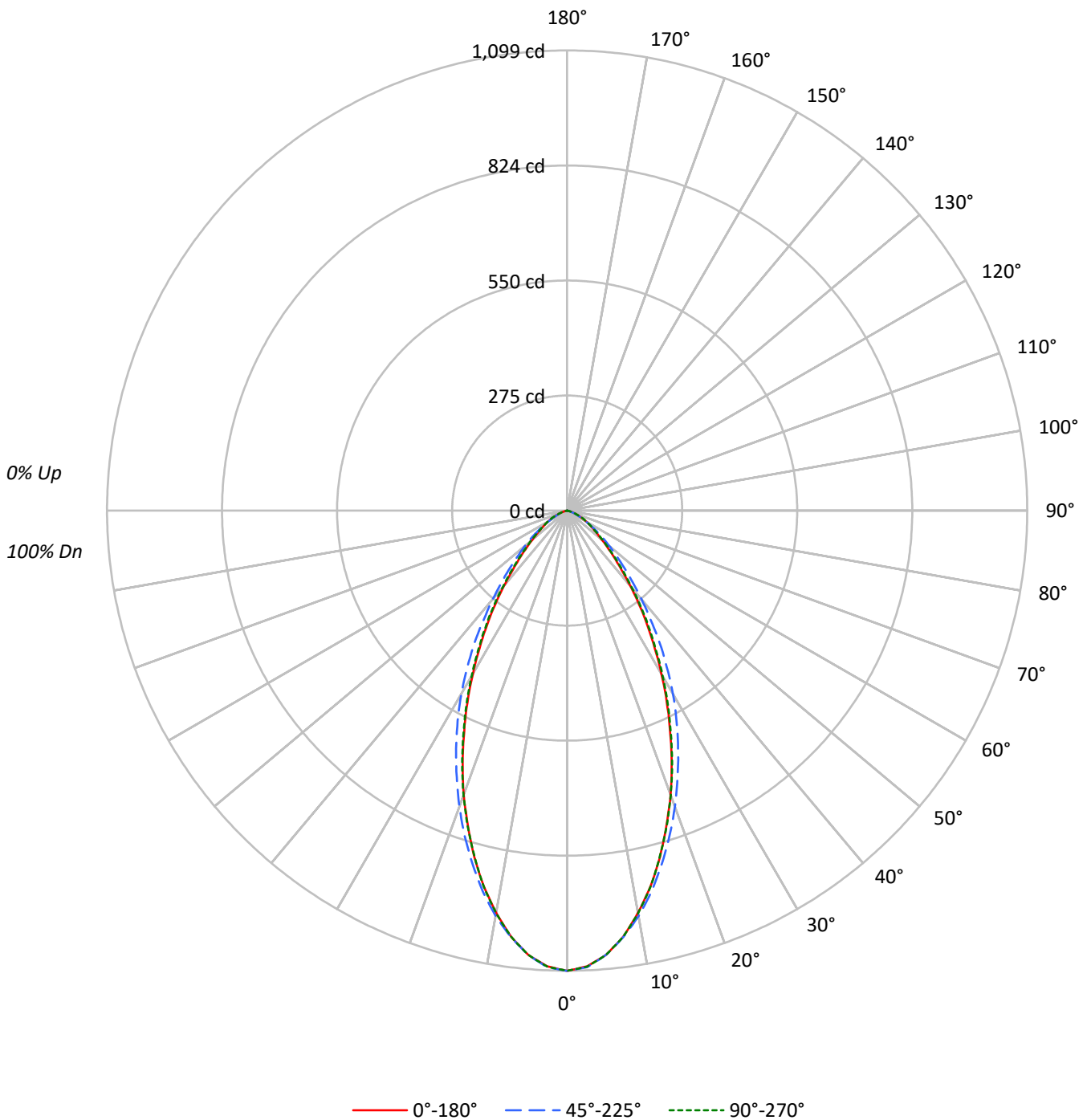
Lumens per Lamp: N/A
Luminaire Lumens: 1090.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.89
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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	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					100			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92					92			
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83					83			
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75					75			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50					50			
9	70	59	53	48	69	59	52	48	58	52	48	57	52	48	56	51	48	46					46			
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47331	47331	47331
5°	46042	46042	46042
10°	42636	42985	42679
15°	38165	38922	38120
20°	33090	34465	33136
25°	27654	29796	27844
30°	22377	25112	22676
35°	17508	20241	17876
40°	13158	15462	13495
45°	9681	11630	10047
50°	7234	8708	7569
55°	5630	6381	5780
60°	4564	4392	4650
65°	3362	2954	3464
70°	2266	1888	2266
75°	998	832	998
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	9.1
10°-20°	240.9	22.1
20°-30°	276.6	25.4
30°-40°	223.9	20.5
40°-50°	137.2	12.6
50°-60°	73.6	6.8
60°-70°	31.8	2.9
70°-80°	6.9	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°	616.5	56.6
0°-40°	840.4	77.1
0°-60°	1051.3	96.4
0°-90°	1090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1065	1065	1065	1065	1065	99
15°	856	864	873	865	855	238
25°	582	602	627	603	586	267
35°	333	354	385	358	340	209
45°	159	171	191	173	165	125
55°	75	81	85	82	77	69
65°	33	31	29	31	34	34
75°	6	6	5	6	6	7
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°	1099.3	1099.3	1099.3	1099.3	1099.3
2.5°	1089.3	1090.3	1091.3	1090.3	1090.3
5°	1065.3	1065.3	1065.3	1065.3	1065.3
7.5°	1026.3	1028.3	1027.3	1027.3	1026.3
10°	975.2	980.2	983.2	980.2	976.2
12.5°	919.2	925.2	931.2	924.2	920.2
15°	856.2	864.2	873.2	865.2	855.2
17.5°	788.2	801.2	814.2	801.2	790.2
20°	722.2	737.2	752.2	736.2	723.2
22.5°	652.2	666.2	689.2	668.2	655.2
25°	582.1	602.2	627.2	603.2	586.1
27.5°	515.1	536.1	566.1	540.1	520.1
30°	450.1	473.1	505.1	477.1	456.1
32.5°	389.1	412.1	443.1	416.1	395.1
35°	333.1	354.1	385.1	358.1	340.1
37.5°	282.1	299.1	326.1	303.1	289.1
40°	234.1	250.1	275.1	253.1	240.1
42.5°	192.0	207.1	231.1	211.1	200.1
45°	159.0	171.0	191.0	173.0	165.0
47.5°	131.0	142.0	158.0	143.0	136.0
50°	108.0	117.0	130.0	119.0	113.0
52.5°	90.0	98.0	108.0	99.0	93.0
55°	75.0	81.0	85.0	82.0	77.0
57.5°	63.0	65.0	66.0	66.0	65.0
60°	53.0	51.0	51.0	52.0	54.0
62.5°	44.0	40.0	39.0	41.0	45.0
65°	33.0	31.0	29.0	31.0	34.0
67.5°	25.0	22.0	21.0	23.0	26.0
70°	18.0	16.0	15.0	16.0	18.0
72.5°	11.0	11.0	9.0	11.0	11.0
75°	6.0	6.0	5.0	6.0	6.0
77.5°	2.0	2.0	1.0	2.0	3.0
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)