

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: P253040

Luminaire Tested: **PRS620D010-S6M12-64SWDMB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SWDMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

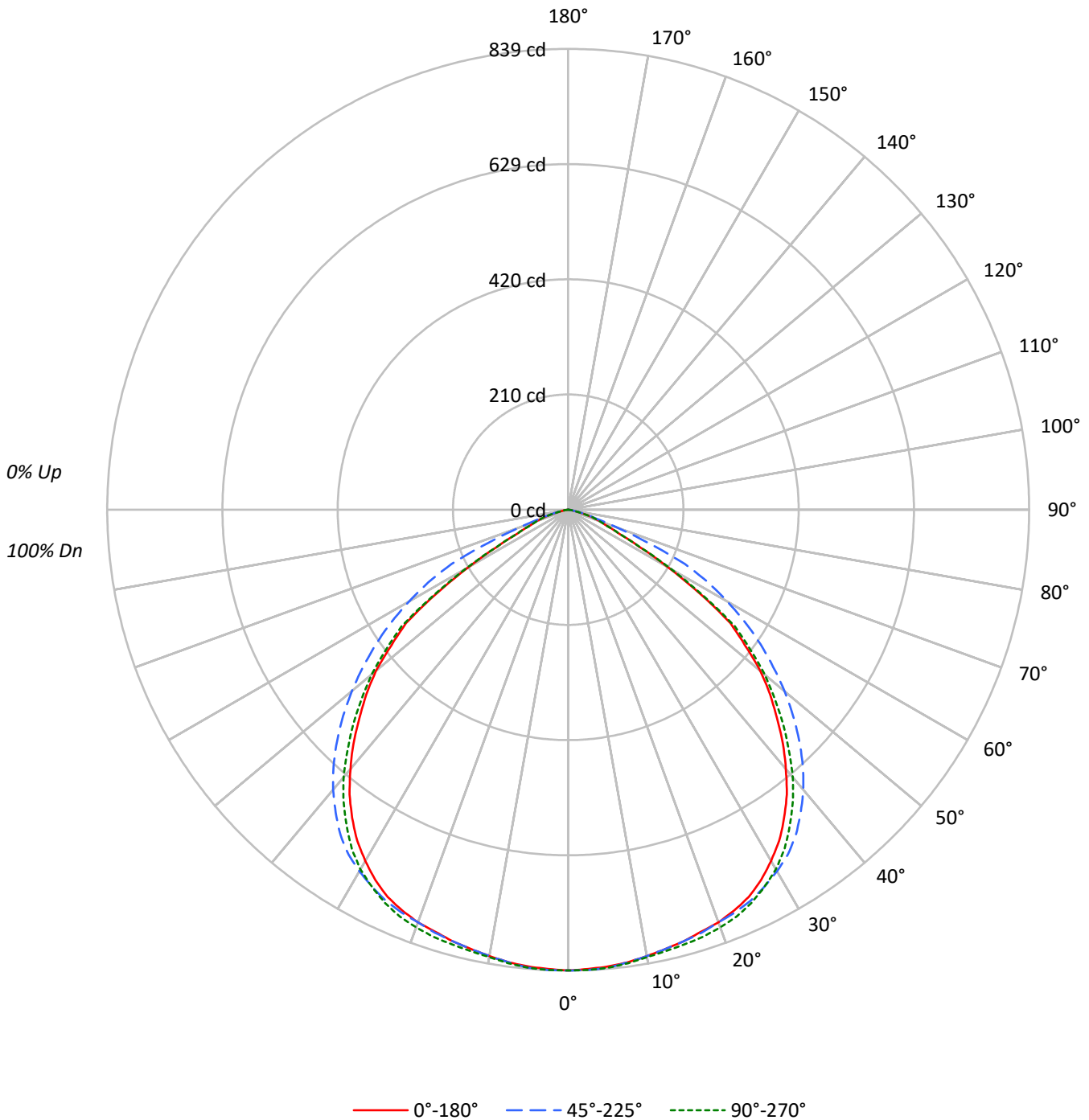
Lumens per Lamp: N/A
Luminaire Lumens: 2092.1 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90					88				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78					76				
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67					65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46					44				
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36115	36115	36115
5°	36084	36171	36171
10°	36073	36073	36156
15°	36248	36248	36511
20°	36632	36632	37081
25°	36951	37326	37511
30°	36711	37789	37591
35°	36015	37986	36951
40°	34639	37410	35746
45°	32734	36211	33690
50°	30598	34422	31261
55°	27046	32075	27789
60°	18144	28821	18652
65°	10229	23870	10229
70°	7679	11644	7440
75°	4591	5240	4907
80°	1959	2430	1959
85°	988	988	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	3.8
10°-20°	230.5	11.0
20°-30°	361.1	17.3
30°-40°	441.2	21.1
40°-50°	438.6	21.0
50°-60°	346.3	16.6
60°-70°	155.0	7.4
70°-80°	36.1	1.7
80°-90°	3.8	0.2
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°	671.1	32.1
0°-40°	1112.3	53.2
0°-60°	1897.2	90.7
0°-90°	2092.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2092.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	839	839	839	839	839	
5°	835	835	837	837	837	79
15°	813	811	813	815	819	230
25°	778	780	786	788	790	357
35°	685	699	723	713	703	427
45°	538	563	595	577	553	415
55°	360	388	427	396	370	308
65°	100	132	234	134	100	112
75°	28	34	32	34	30	31
85°	2	2	2	2	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	838.8	838.8	838.8	838.8	838.8
2.5°	836.9	838.8	838.8	838.8	838.8
5°	834.9	834.9	836.9	836.9	836.9
7.5°	831.0	831.0	831.0	832.9	832.9
10°	825.1	825.1	825.1	827.0	827.0
12.5°	819.1	819.1	819.1	821.1	823.1
15°	813.2	811.3	813.2	815.2	819.1
17.5°	805.4	807.3	807.3	811.3	815.2
20°	799.5	799.5	799.5	805.4	809.3
22.5°	789.6	789.6	793.5	797.5	801.4
25°	777.8	779.8	785.7	787.6	789.6
27.5°	760.1	766.0	773.9	775.8	773.9
30°	738.4	746.3	760.1	758.1	756.1
32.5°	714.8	724.6	744.3	738.4	732.5
35°	685.2	699.0	722.7	712.8	703.0
37.5°	653.7	671.5	695.1	685.2	671.5
40°	616.3	638.0	665.6	651.8	636.0
42.5°	578.9	602.5	632.1	614.4	594.7
45°	537.6	563.2	594.7	576.9	553.3
47.5°	498.2	523.8	555.3	533.6	510.0
50°	456.8	480.5	513.9	490.3	466.7
52.5°	405.6	437.1	470.6	445.0	417.4
55°	360.3	387.9	427.3	395.8	370.2
57.5°	283.5	338.7	382.0	344.6	291.4
60°	210.7	263.9	334.7	271.7	216.6
62.5°	145.7	194.9	287.5	196.9	147.7
65°	100.4	131.9	234.3	133.9	100.4
67.5°	74.8	88.6	157.5	88.6	74.8
70°	61.0	65.0	92.5	65.0	59.1
72.5°	45.3	51.2	51.2	51.2	47.3
75°	27.6	33.5	31.5	33.5	29.5
77.5°	11.8	15.8	19.7	17.7	11.8
80°	7.9	7.9	9.8	7.9	7.9
82.5°	5.9	5.9	5.9	5.9	5.9
85°	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)