

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: P238320

Luminaire Tested: **PRS620D010-S6M12-64SNDMB-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238320
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: PRS620D010-S6M12-64SNDMB-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2352.6 lumens
Efficiency: N/A
Efficacy: 117.6 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

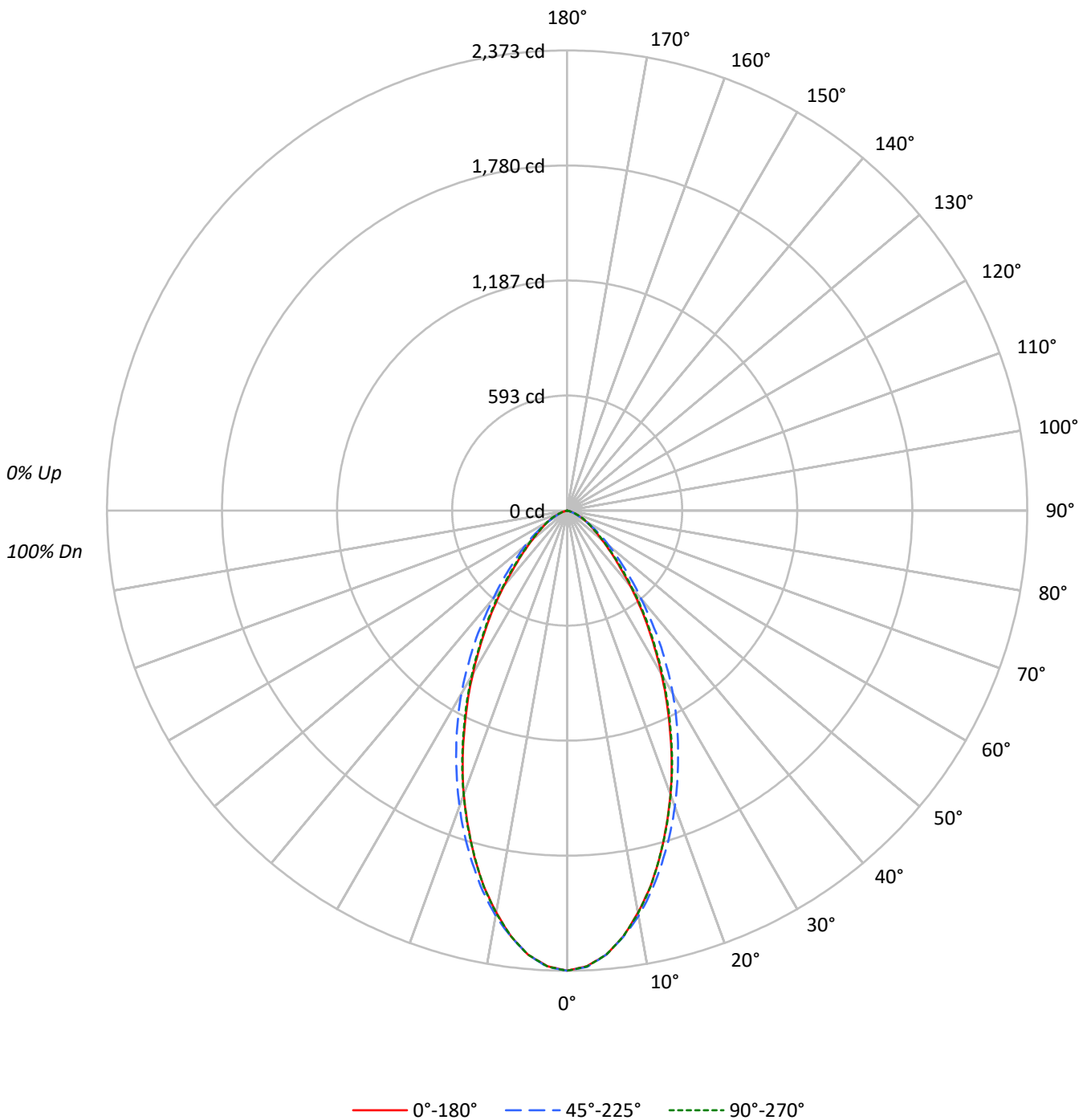
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	102154	102154	102154
5°	99372	99372	99372
10°	92026	92782	92122
15°	82374	84010	82276
20°	71418	74387	71519
25°	59692	64305	60101
30°	48299	54201	48946
35°	37786	43689	38580
40°	28395	33369	29120
45°	20904	25105	21689
50°	15620	18802	16344
55°	12153	13774	12476
60°	9851	9481	10041
65°	7254	6378	7478
70°	4897	4079	4897
75°	2163	1797	2163
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	9.1
10°-20°	520.0	22.1
20°-30°	597.0	25.4
30°-40°	483.3	20.5
40°-50°	296.2	12.6
50°-60°	159.0	6.8
60°-70°	68.7	2.9
70°-80°	14.8	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°	1330.5	56.6
0°-40°	1813.8	77.1
0°-60°	2269.0	96.4
0°-90°	2352.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2352.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2373	2373	2373	2373	2373	
5°	2299	2299	2299	2299	2299	213
15°	1848	1865	1885	1867	1846	514
25°	1256	1300	1354	1302	1265	575
35°	719	764	831	773	734	451
45°	343	369	412	374	356	270
55°	162	175	184	177	166	148
65°	71	67	63	67	73	73
75°	13	13	11	13	13	16
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°	2372.6	2372.6	2372.6	2372.6	2372.6
2.5°	2351.0	2353.2	2355.3	2353.2	2353.2
5°	2299.2	2299.2	2299.2	2299.2	2299.2
7.5°	2215.0	2219.3	2217.2	2217.2	2215.0
10°	2104.9	2115.7	2122.2	2115.7	2107.1
12.5°	1984.0	1997.0	2009.9	1994.8	1986.2
15°	1848.0	1865.3	1884.7	1867.4	1845.8
17.5°	1701.2	1729.3	1757.3	1729.3	1705.5
20°	1558.7	1591.1	1623.5	1588.9	1560.9
22.5°	1407.6	1437.8	1487.5	1442.1	1414.1
25°	1256.5	1299.6	1353.6	1301.8	1265.1
27.5°	1111.8	1157.2	1221.9	1165.8	1122.6
30°	971.5	1021.2	1090.2	1029.8	984.5
32.5°	839.8	889.5	956.4	898.1	852.8
35°	718.9	764.2	831.2	772.9	734.0
37.5°	608.8	645.5	703.8	654.1	623.9
40°	505.2	539.7	593.7	546.2	518.1
42.5°	414.5	446.9	498.7	455.5	431.8
45°	343.3	369.2	412.3	373.5	356.2
47.5°	282.8	306.6	341.1	308.7	293.6
50°	233.2	252.6	280.7	256.9	244.0
52.5°	194.3	211.6	233.2	213.7	200.8
55°	161.9	174.9	183.5	177.0	166.2
57.5°	136.0	140.3	142.5	142.5	140.3
60°	114.4	110.1	110.1	112.3	116.6
62.5°	95.0	86.4	84.2	88.5	97.1
65°	71.2	66.9	62.6	66.9	73.4
67.5°	54.0	47.5	45.3	49.7	56.1
70°	38.9	34.5	32.4	34.5	38.9
72.5°	23.7	23.7	19.4	23.7	23.7
75°	13.0	13.0	10.8	13.0	13.0
77.5°	4.3	4.3	2.2	4.3	6.5
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)