

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: P238310

Luminaire Tested: **PRS620D010-S6M12-64SNDMB-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238310
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-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2265.1 lumens
Efficiency: N/A
Efficacy: 113.3 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

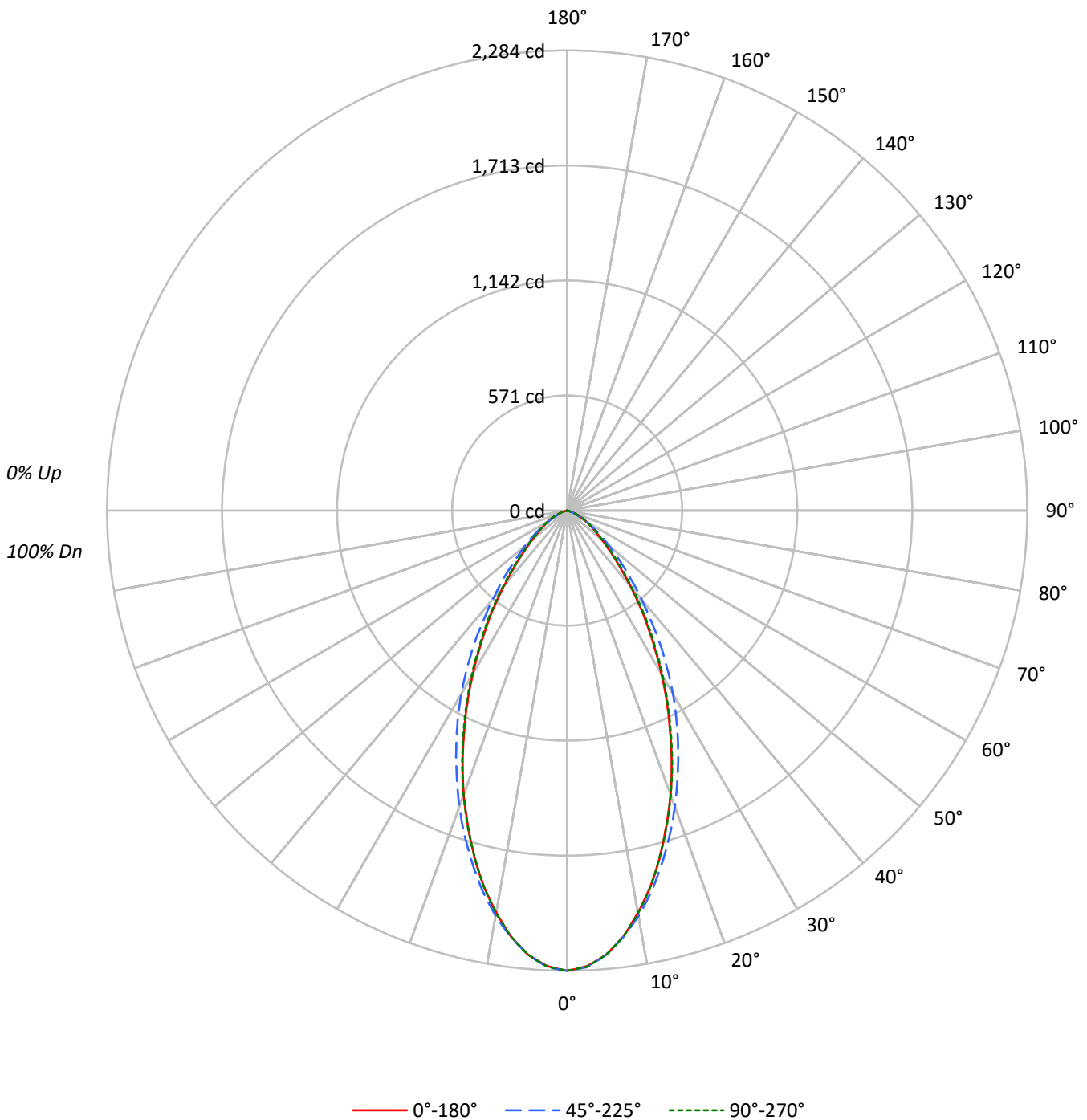
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	98356	98356	98356
5°	95676	95676	95676
10°	88603	89328	88694
15°	79311	80885	79218
20°	68760	71619	68857
25°	57469	61915	57868
30°	46505	52187	47121
35°	36383	42065	37145
40°	27338	32127	28041
45°	20124	24173	20885
50°	15038	18099	15734
55°	11703	13264	12018
60°	9489	9128	9662
65°	6989	6143	7203
70°	4708	3928	4708
75°	2079	1730	2079
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	9.1
10°-20°	500.7	22.1
20°-30°	574.8	25.4
30°-40°	465.3	20.5
40°-50°	285.2	12.6
50°-60°	153.1	6.8
60°-70°	66.2	2.9
70°-80°	14.3	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°	1281.0	56.6
0°-40°	1746.4	77.1
0°-60°	2184.6	96.4
0°-90°	2265.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2265.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2284	2284	2284	2284	2284	
5°	2214	2214	2214	2214	2214	205
15°	1779	1796	1815	1798	1777	495
25°	1210	1251	1303	1253	1218	554
35°	692	736	800	744	707	434
45°	330	355	397	360	343	260
55°	156	168	177	170	160	143
65°	69	64	60	64	71	70
75°	12	12	10	12	12	15
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°	2284.4	2284.4	2284.4	2284.4	2284.4
2.5°	2263.6	2265.7	2267.7	2265.7	2265.7
5°	2213.7	2213.7	2213.7	2213.7	2213.7
7.5°	2132.6	2136.8	2134.7	2134.7	2132.6
10°	2026.6	2037.0	2043.2	2037.0	2028.7
12.5°	1910.2	1922.7	1935.2	1920.6	1912.3
15°	1779.3	1795.9	1814.6	1798.0	1777.2
17.5°	1637.9	1664.9	1692.0	1664.9	1642.1
20°	1500.7	1531.9	1563.1	1529.8	1502.8
22.5°	1355.2	1384.3	1432.1	1388.5	1361.5
25°	1209.7	1251.3	1303.3	1253.4	1218.1
27.5°	1070.5	1114.1	1176.5	1122.4	1080.9
30°	935.4	983.2	1049.7	991.5	947.8
32.5°	808.6	856.4	920.8	864.7	821.0
35°	692.2	735.8	800.3	744.1	706.7
37.5°	586.2	621.5	677.6	629.8	600.7
40°	486.4	519.6	571.6	525.9	498.9
42.5°	399.1	430.3	480.2	438.6	415.7
45°	330.5	355.4	397.0	359.6	343.0
47.5°	272.3	295.2	328.4	297.2	282.7
50°	224.5	243.2	270.2	247.4	234.9
52.5°	187.1	203.7	224.5	205.8	193.3
55°	155.9	168.4	176.7	170.4	160.1
57.5°	131.0	135.1	137.2	137.2	135.1
60°	110.2	106.0	106.0	108.1	112.2
62.5°	91.5	83.1	81.1	85.2	93.5
65°	68.6	64.4	60.3	64.4	70.7
67.5°	52.0	45.7	43.7	47.8	54.0
70°	37.4	33.3	31.2	33.3	37.4
72.5°	22.9	22.9	18.7	22.9	22.9
75°	12.5	12.5	10.4	12.5	12.5
77.5°	4.2	4.2	2.1	4.2	6.2
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)