

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: P238095

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-10)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SNDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2456.2 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.86
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

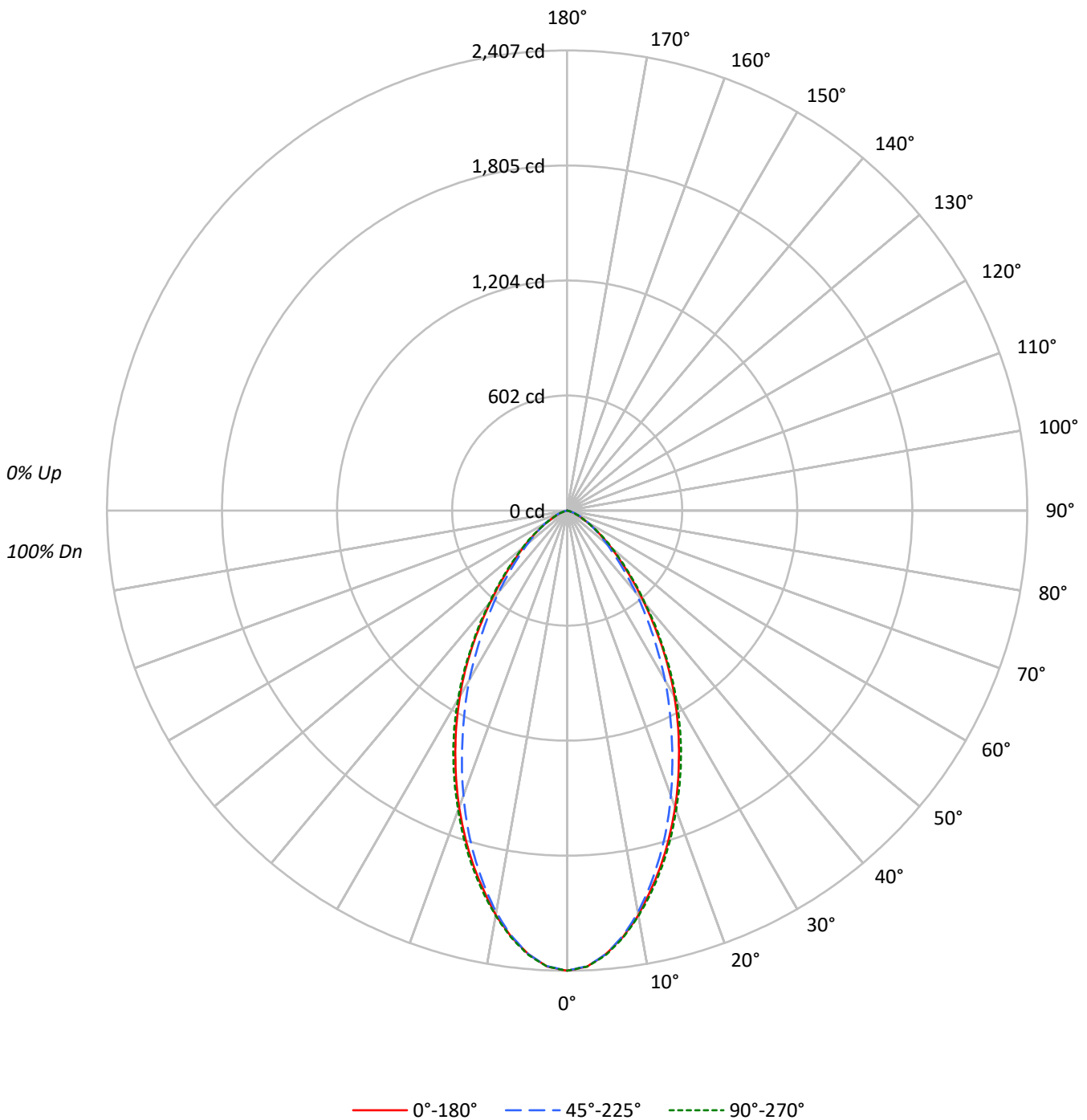
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83					83			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	70	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49					49			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	103618	103618	103618
5°	100655	100655	100841
10°	93893	93329	94081
15°	85146	83510	85721
20°	75656	72687	76348
25°	65725	61421	66956
30°	55802	50865	56766
35°	45381	40388	45949
40°	35061	31177	35668
45°	26414	23528	27333
50°	19954	17925	20678
55°	14420	13932	14908
60°	10221	11151	10411
65°	7040	8140	7040
70°	4620	5438	4620
75°	2163	2512	2163
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	8.8
10°-20°	528.1	21.5
20°-30°	614.3	25.0
30°-40°	508.2	20.7
40°-50°	320.6	13.1
50°-60°	174.4	7.1
60°-70°	76.6	3.1
70°-80°	17.6	0.7
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°	1358.8	55.3
0°-40°	1867.0	76.0
0°-60°	2362.0	96.2
0°-90°	2456.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2407	2407	2407	2407	2407	
5°	2329	2331	2329	2331	2333	217
15°	1910	1889	1874	1899	1923	533
25°	1384	1330	1293	1347	1409	634
35°	863	799	768	812	874	538
45°	434	399	386	406	449	340
55°	192	190	186	194	199	177
65°	69	76	80	76	69	71
75°	13	15	15	17	13	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°	2406.6	2406.6	2406.6	2406.6	2406.6
2.5°	2387.2	2385.0	2385.0	2387.2	2387.2
5°	2328.9	2331.1	2328.9	2331.1	2333.2
7.5°	2246.9	2244.7	2242.6	2249.1	2251.2
10°	2147.6	2141.1	2134.7	2145.4	2151.9
12.5°	2028.9	2018.1	2007.3	2024.6	2041.8
15°	1910.2	1888.6	1873.5	1899.4	1923.1
17.5°	1782.8	1754.8	1733.2	1763.4	1797.9
20°	1651.2	1614.5	1586.4	1623.1	1666.3
22.5°	1517.4	1472.0	1437.5	1485.0	1538.9
25°	1383.5	1329.6	1292.9	1346.8	1409.4
27.5°	1254.0	1191.4	1154.7	1206.5	1277.8
30°	1122.4	1057.6	1023.1	1074.9	1141.8
32.5°	992.9	928.1	889.3	941.1	1010.1
35°	863.4	798.6	768.4	811.6	874.2
37.5°	733.9	679.9	656.2	692.8	755.4
40°	623.8	574.1	554.7	582.8	634.6
42.5°	522.3	477.0	461.9	490.0	539.6
45°	433.8	399.3	386.4	405.8	448.9
47.5°	358.3	332.4	321.6	341.0	371.2
50°	297.9	278.4	267.6	282.8	308.7
52.5°	243.9	230.9	222.3	235.3	252.5
55°	192.1	189.9	185.6	194.3	198.6
57.5°	153.2	153.2	155.4	155.4	155.4
60°	118.7	123.0	129.5	125.2	120.9
62.5°	90.7	97.1	103.6	97.1	92.8
65°	69.1	75.5	79.9	75.5	69.1
67.5°	51.8	56.1	60.4	56.1	51.8
70°	36.7	41.0	43.2	41.0	36.7
72.5°	23.7	28.1	28.1	28.1	23.7
75°	13.0	15.1	15.1	17.3	13.0
77.5°	2.2	4.3	6.5	6.5	2.2
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)