

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: P238270

Luminaire Tested: **PRS620D010-S6M12-61SNDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-22)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-61SNDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

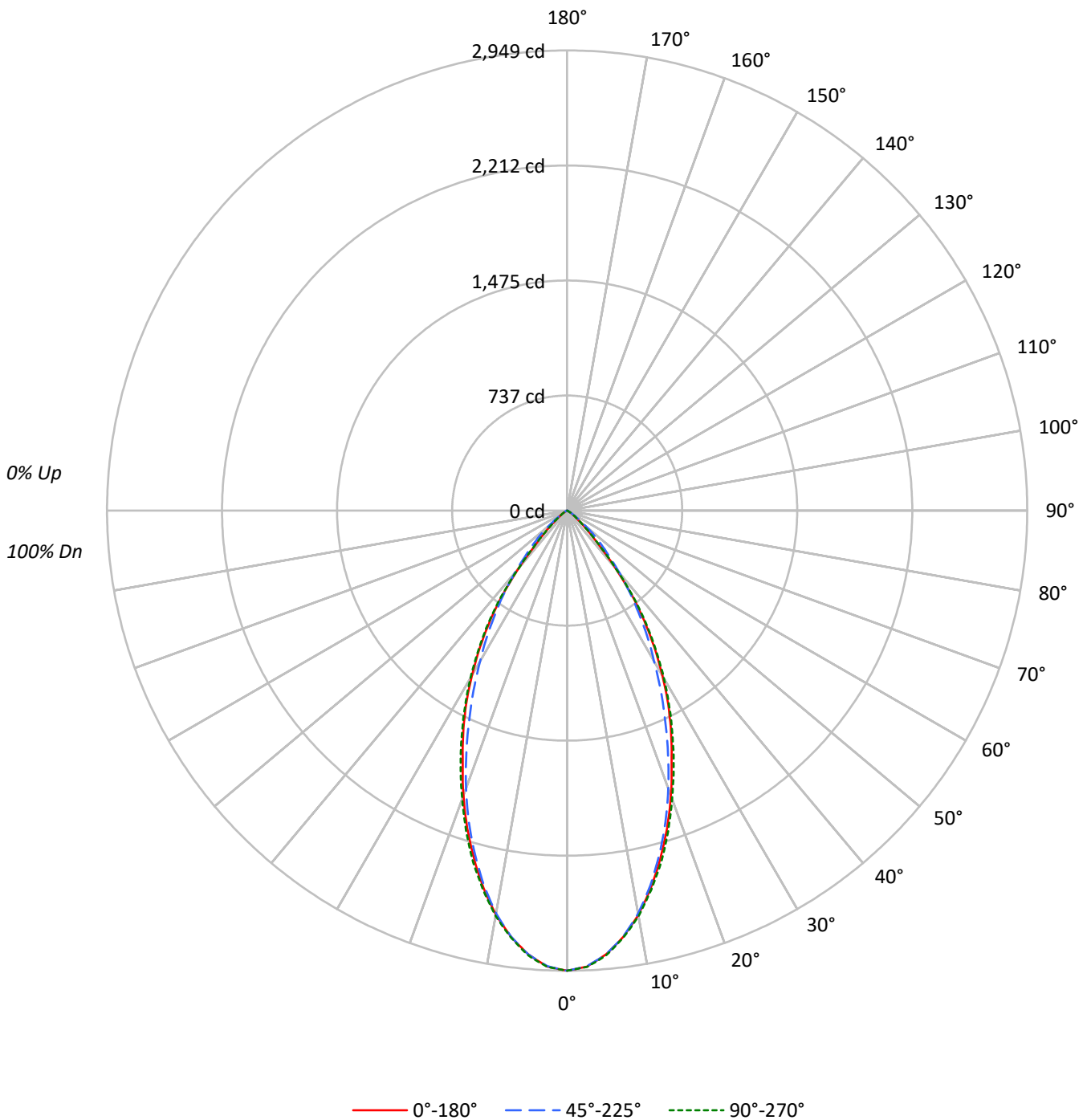
Lumens per Lamp: N/A
Luminaire Lumens: 2387.8 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.8 / 0.81
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87					87			
3	102	96	91	86	100	94	90	86	92	88	84	89	86	83	87	84	82	80					80			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74					74			
5	92	83	77	73	90	82	77	73	80	76	72	79	75	71	77	74	71	69					69			
6	87	78	72	67	86	77	71	67	76	71	67	74	70	66	73	69	66	64					64			
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	62	60					60			
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56					56			
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53					53			
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50					50			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	126954	126954	126954
5°	123406	123406	123692
10°	114970	114590	115350
15°	102905	101741	103872
20°	89076	86790	90071
25°	74937	70609	75968
30°	60624	55339	61703
35°	45161	41855	46301
40°	27074	29266	27192
45°	12549	18894	12683
50°	6102	10610	6102
55°	3258	4399	3258
60°	1119	1869	1119
65°	0	662	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	11.1
10°-20°	639.4	26.8
20°-30°	702.8	29.4
30°-40°	515.8	21.6
40°-50°	209.7	8.8
50°-60°	50.4	2.1
60°-70°	4.3	0.2
70°-80°	0.0	0.0
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°	1607.6	67.3
0°-40°	2123.4	88.9
0°-60°	2383.4	99.8
0°-90°	2387.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2387.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2949	2949	2949	2949	2949	
5°	2855	2858	2855	2862	2862	265
15°	2309	2300	2282	2304	2330	642
25°	1577	1521	1486	1543	1599	720
35°	859	818	796	833	881	529
45°	206	245	310	250	208	179
55°	43	52	59	52	43	41
65°	0	0	6	0	0	2
75°	0	0	0	0	0	0
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°	2948.6	2948.6	2948.6	2948.6	2948.6
2.5°	2924.8	2924.8	2922.6	2924.8	2926.9
5°	2855.3	2857.5	2855.3	2861.9	2861.9
7.5°	2755.5	2751.2	2753.4	2762.1	2759.9
10°	2629.7	2623.2	2621.0	2629.7	2638.4
12.5°	2477.8	2467.0	2462.6	2475.6	2488.7
15°	2308.6	2299.9	2282.5	2304.2	2330.3
17.5°	2130.7	2113.3	2093.8	2122.0	2152.4
20°	1944.1	1913.7	1894.2	1928.9	1965.8
22.5°	1748.8	1716.2	1690.2	1737.9	1783.5
25°	1577.4	1521.0	1486.3	1542.7	1599.1
27.5°	1401.6	1340.9	1299.7	1358.2	1419.0
30°	1219.4	1158.6	1113.1	1180.3	1241.1
32.5°	1039.3	985.1	954.7	1002.4	1054.5
35°	859.2	818.0	796.3	833.2	880.9
37.5°	674.8	661.8	655.3	672.6	694.3
40°	481.7	514.2	520.7	522.9	483.8
42.5°	318.9	364.5	401.4	371.0	323.3
45°	206.1	245.2	310.3	249.5	208.3
47.5°	132.4	162.7	232.2	164.9	134.5
50°	91.1	108.5	158.4	108.5	91.1
52.5°	62.9	73.8	99.8	73.8	65.1
55°	43.4	52.1	58.6	52.1	43.4
57.5°	26.0	32.5	34.7	32.5	26.0
60°	13.0	19.5	21.7	19.5	13.0
62.5°	0.0	6.5	13.0	6.5	0.0
65°	0.0	0.0	6.5	0.0	0.0
67.5°	0.0	0.0	2.2	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
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)