

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: P238269

Luminaire Tested: **PRS615D010-S6M12-61SNDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238269
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: PRS615D010-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

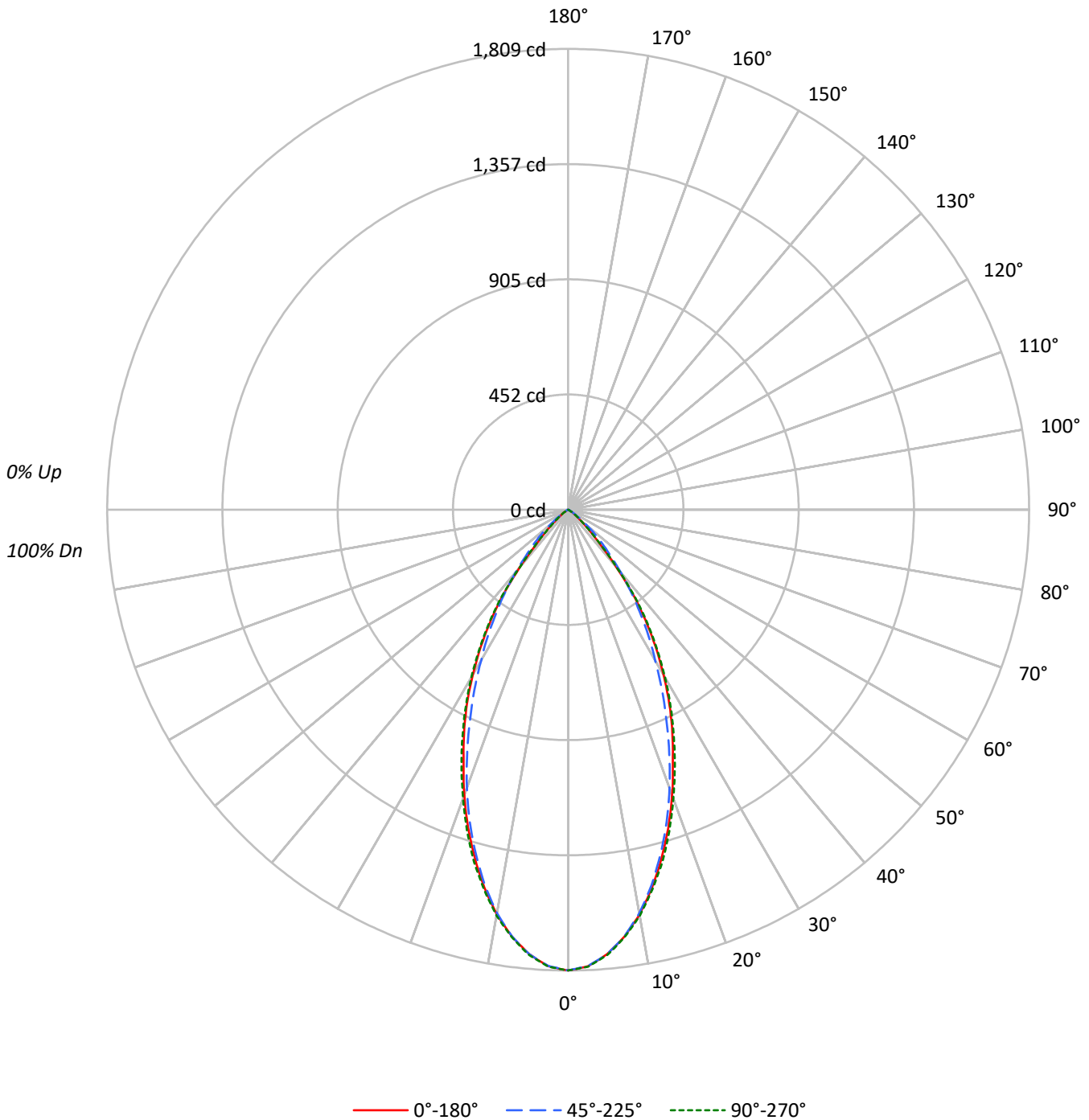
Lumens per Lamp: N/A
Luminaire Lumens: 1464.6 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.8 / 0.81
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 12.6
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°	77870	77870	77870
5°	75696	75696	75869
10°	70520	70288	70752
15°	63117	62404	63710
20°	54634	53232	55244
25°	45963	43307	46595
30°	37183	33941	37844
35°	27700	25671	28399
40°	16603	17952	16682
45°	7696	11587	7782
50°	3744	6511	3744
55°	1997	2695	1997
60°	689	1145	689
65°	0	408	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°	162.8	11.1
10°-20°	392.2	26.8
20°-30°	431.1	29.4
30°-40°	316.4	21.6
40°-50°	128.6	8.8
50°-60°	30.9	2.1
60°-70°	2.7	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°	986.0	67.3
0°-40°	1302.4	88.9
0°-60°	1461.9	99.8
0°-90°	1464.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1464.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1809	1809	1809	1809	1809	
5°	1751	1753	1751	1755	1755	163
15°	1416	1411	1400	1413	1429	394
25°	968	933	912	946	981	442
35°	527	502	488	511	540	324
45°	126	150	190	153	128	110
55°	27	32	36	32	27	25
65°	0	0	4	0	0	1
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°	1808.6	1808.6	1808.6	1808.6	1808.6
2.5°	1794.0	1794.0	1792.6	1794.0	1795.3
5°	1751.4	1752.7	1751.4	1755.4	1755.4
7.5°	1690.2	1687.5	1688.8	1694.2	1692.8
10°	1613.0	1609.0	1607.7	1613.0	1618.3
12.5°	1519.8	1513.2	1510.5	1518.5	1526.5
15°	1416.0	1410.7	1400.0	1413.3	1429.3
17.5°	1306.9	1296.2	1284.3	1301.6	1320.2
20°	1192.4	1173.8	1161.8	1183.1	1205.7
22.5°	1072.7	1052.7	1036.7	1066.0	1093.9
25°	967.5	932.9	911.6	946.2	980.8
27.5°	859.7	822.5	797.2	833.1	870.4
30°	747.9	710.7	682.7	724.0	761.2
32.5°	637.5	604.2	585.6	614.8	646.8
35°	527.0	501.7	488.4	511.0	540.3
37.5°	413.9	405.9	401.9	412.6	425.9
40°	295.4	315.4	319.4	320.7	296.8
42.5°	195.6	223.6	246.2	227.6	198.3
45°	126.4	150.4	190.3	153.0	127.8
47.5°	81.2	99.8	142.4	101.1	82.5
50°	55.9	66.5	97.2	66.5	55.9
52.5°	38.6	45.2	61.2	45.2	39.9
55°	26.6	31.9	35.9	31.9	26.6
57.5°	16.0	20.0	21.3	20.0	16.0
60°	8.0	12.0	13.3	12.0	8.0
62.5°	0.0	4.0	8.0	4.0	0.0
65°	0.0	0.0	4.0	0.0	0.0
67.5°	0.0	0.0	1.3	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)