

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: P238265

Luminaire Tested: **PRS620D010-S6M12-61SNDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238265
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-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2285.9 lumens
Efficiency: N/A
Efficacy: 114.3 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

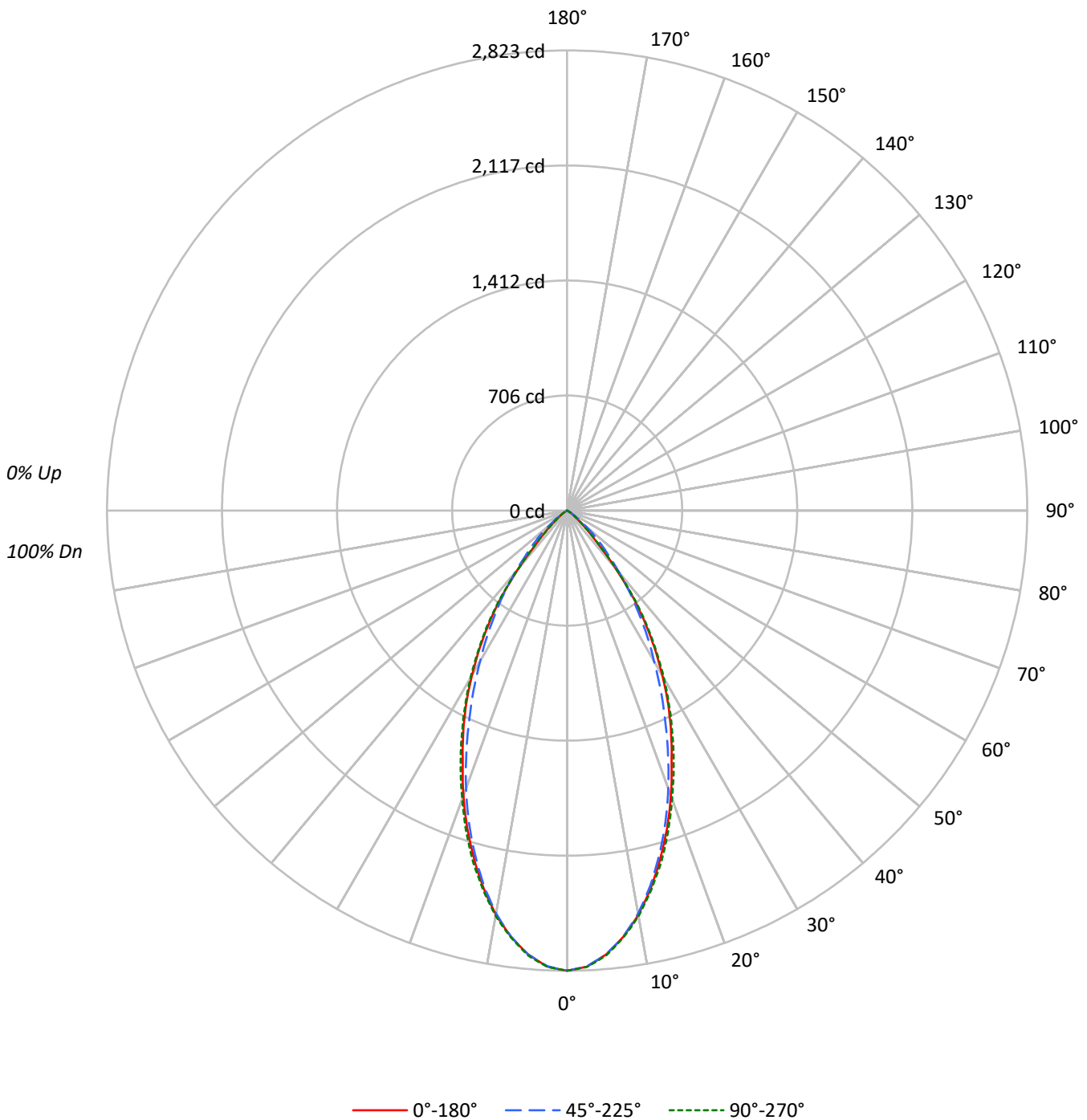
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	121538	121538	121538
5°	118142	118142	118410
10°	110065	109702	110428
15°	98514	97400	99437
20°	85274	83083	86227
25°	71740	67592	72723
30°	58034	52978	59068
35°	43232	40067	44325
40°	25916	28018	26034
45°	12014	18084	12141
50°	5841	10155	5841
55°	3115	4211	3115
60°	1076	1791	1076
65°	0	632	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°	254.1	11.1
10°-20°	612.1	26.8
20°-30°	672.8	29.4
30°-40°	493.8	21.6
40°-50°	200.7	8.8
50°-60°	48.2	2.1
60°-70°	4.2	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°	1539.0	67.3
0°-40°	2032.7	88.9
0°-60°	2281.7	99.8
0°-90°	2285.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2285.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2823	2823	2823	2823	2823	
5°	2734	2736	2734	2740	2740	254
15°	2210	2202	2185	2206	2231	615
25°	1510	1456	1423	1477	1531	690
35°	822	783	762	798	843	506
45°	197	235	297	239	199	171
55°	42	50	56	50	42	39
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°	2822.8	2822.8	2822.8	2822.8	2822.8
2.5°	2800.0	2800.0	2797.9	2800.0	2802.0
5°	2733.5	2735.6	2733.5	2739.7	2739.7
7.5°	2638.0	2633.8	2635.9	2644.2	2642.1
10°	2517.5	2511.2	2509.2	2517.5	2525.8
12.5°	2372.1	2361.7	2357.5	2370.0	2382.5
15°	2210.1	2201.8	2185.1	2205.9	2230.8
17.5°	2039.7	2023.1	2004.4	2031.4	2060.5
20°	1861.1	1832.0	1813.3	1846.6	1881.9
22.5°	1674.2	1643.0	1618.1	1663.8	1707.4
25°	1510.1	1456.1	1422.8	1476.8	1530.8
27.5°	1341.8	1283.7	1244.2	1300.3	1358.4
30°	1167.3	1109.2	1065.6	1130.0	1188.1
32.5°	994.9	943.0	913.9	959.6	1009.5
35°	822.5	783.1	762.3	797.6	843.3
37.5°	646.0	633.5	627.3	643.9	664.7
40°	461.1	492.3	498.5	500.6	463.2
42.5°	305.3	349.0	384.3	355.2	309.5
45°	197.3	234.7	297.0	238.9	199.4
47.5°	126.7	155.8	222.3	157.9	128.8
50°	87.2	103.9	151.6	103.9	87.2
52.5°	60.2	70.6	95.5	70.6	62.3
55°	41.5	49.9	56.1	49.9	41.5
57.5°	24.9	31.2	33.2	31.2	24.9
60°	12.5	18.7	20.8	18.7	12.5
62.5°	0.0	6.2	12.5	6.2	0.0
65°	0.0	0.0	6.2	0.0	0.0
67.5°	0.0	0.0	2.1	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)