

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: P238266

Luminaire Tested: **PRS630D010-S6M24-61SNDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238266
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: PRS630D010-S6M24-61SNDC-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: 2743.1 lumens
Efficiency: N/A
Efficacy: 107.6 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

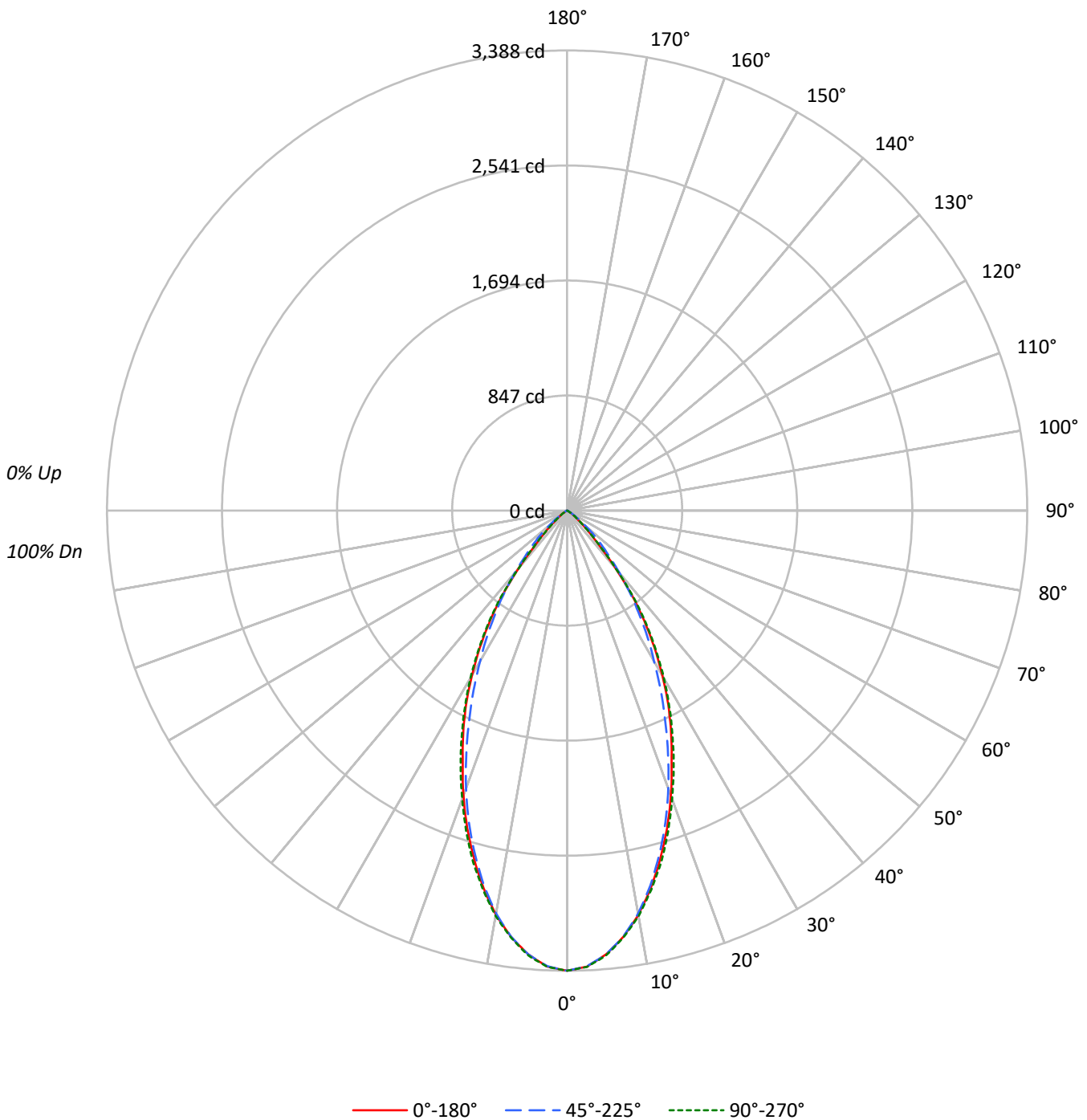
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	145851	145851	145851
5°	141775	141775	142099
10°	132078	131645	132515
15°	118216	116883	119330
20°	102332	99706	103473
25°	86087	81113	87274
30°	69643	63572	70886
35°	51883	48083	53192
40°	31104	33622	31244
45°	14419	21701	14571
50°	7013	12191	7013
55°	3746	5052	3746
60°	1292	2144	1292
65°	0	764	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°	304.9	11.1
10°-20°	734.5	26.8
20°-30°	807.4	29.4
30°-40°	592.5	21.6
40°-50°	240.9	8.8
50°-60°	57.9	2.1
60°-70°	5.0	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°	1846.8	67.3
0°-40°	2439.4	88.9
0°-60°	2738.1	99.8
0°-90°	2743.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2743.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3388	3388	3388	3388	3388	
5°	3280	3283	3280	3288	3288	305
15°	2652	2642	2622	2647	2677	738
25°	1812	1747	1707	1772	1837	828
35°	987	940	915	957	1012	607
45°	237	282	356	287	239	205
55°	50	60	67	60	50	47
65°	0	0	8	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°	3387.5	3387.5	3387.5	3387.5	3387.5
2.5°	3360.0	3360.0	3357.6	3360.0	3362.5
5°	3280.3	3282.8	3280.3	3287.8	3287.8
7.5°	3165.6	3160.6	3163.1	3173.1	3170.6
10°	3021.0	3013.6	3011.1	3021.0	3031.0
12.5°	2846.6	2834.1	2829.1	2844.1	2859.0
15°	2652.1	2642.2	2622.2	2647.2	2677.1
17.5°	2447.7	2427.8	2405.4	2437.8	2472.7
20°	2233.4	2198.5	2176.1	2215.9	2258.3
22.5°	2009.0	1971.7	1941.7	1996.6	2048.9
25°	1812.1	1747.3	1707.4	1772.2	1837.1
27.5°	1610.2	1540.4	1493.1	1560.4	1630.2
30°	1400.8	1331.1	1278.7	1356.0	1425.8
32.5°	1194.0	1131.6	1096.8	1151.6	1211.4
35°	987.1	939.7	914.8	957.2	1012.0
37.5°	775.2	760.2	752.8	772.7	797.6
40°	553.4	590.7	598.2	600.7	555.9
42.5°	366.4	418.8	461.1	426.2	371.4
45°	236.8	281.7	356.4	286.7	239.3
47.5°	152.0	186.9	266.7	189.4	154.5
50°	104.7	124.6	182.0	124.6	104.7
52.5°	72.3	84.7	114.7	84.7	74.8
55°	49.9	59.8	67.3	59.8	49.9
57.5°	29.9	37.4	39.9	37.4	29.9
60°	15.0	22.4	24.9	22.4	15.0
62.5°	0.0	7.5	15.0	7.5	0.0
65°	0.0	0.0	7.5	0.0	0.0
67.5°	0.0	0.0	2.5	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)