

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: P238221

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238221  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-19)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-61SNDH-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2708.2 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.84  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

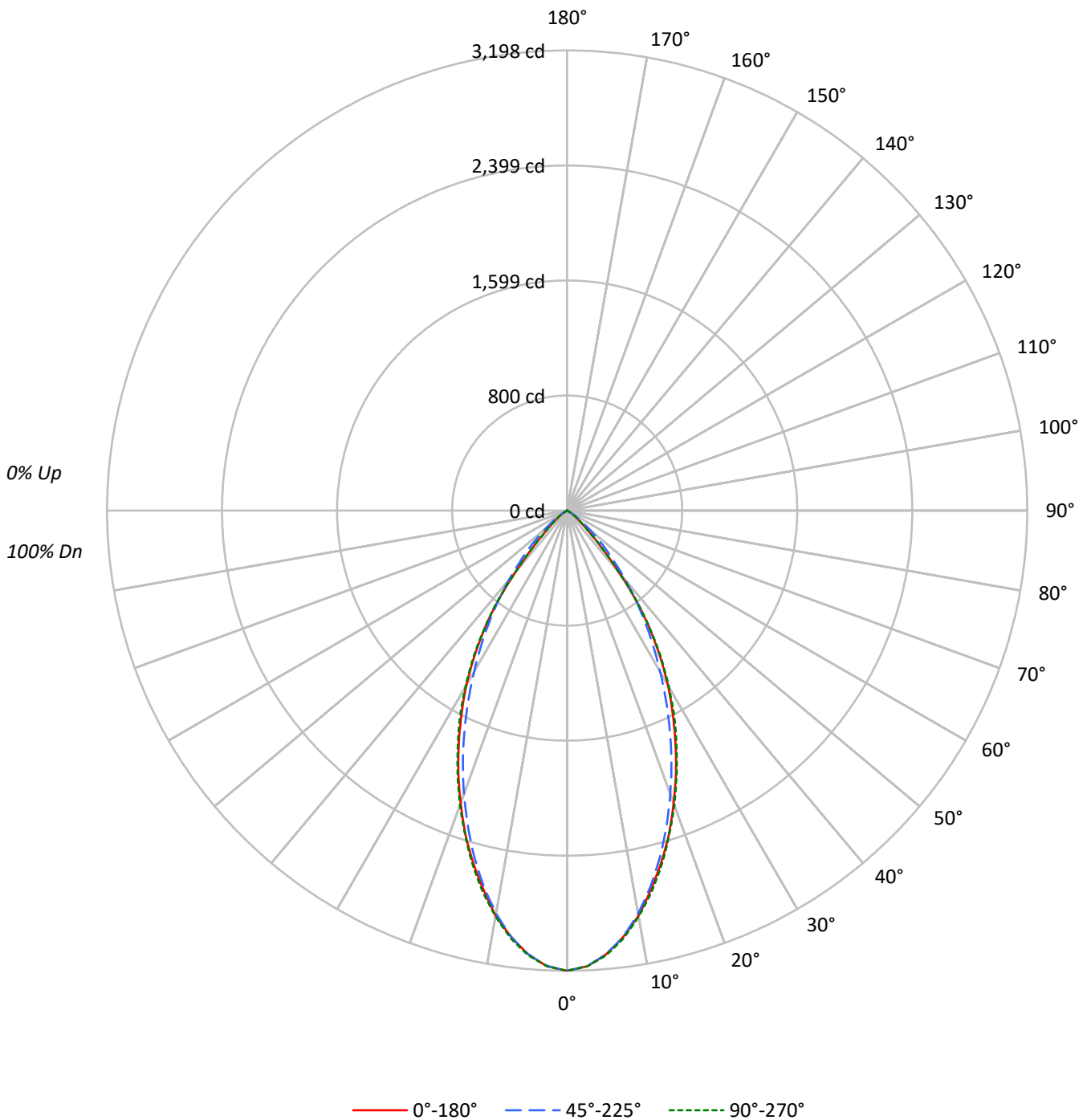
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	101	101	99	98	97	96	95	93					93			
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80					80			
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74					74			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68					68			
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64					64			
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59					59			
8	78	68	62	58	77	68	62	58	66	61	57	65	61	57	64	60	57	55					55			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	57	53	52					52			
10	71	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49					49			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	137679	137679	137679
5°	133788	133788	134108
10°	124973	124317	125192
15°	112738	111071	113406
20°	99088	96000	99771
25°	84605	80225	85436
30°	69692	64239	70190
35°	52572	49560	52835
40°	31542	35331	31542
45°	14881	23083	14881
50°	7683	13202	7515
55°	4309	5803	4309
60°	1722	2575	1722
65°	509	1019	509
70°	315	315	315
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.9	10.6
10°-20°	699.7	25.8
20°-30°	793.7	29.3
30°-40°	600.2	22.2
40°-50°	252.0	9.3
50°-60°	65.3	2.4
60°-70°	8.4	0.3
70°-80°	1.0	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°	1781.3	65.8
0°-40°	2381.5	87.9
0°-60°	2698.8	99.7
0°-90°	2708.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2708.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3198	3198	3198	3198	3198	
5°	3096	3098	3096	3100	3103	288
15°	2529	2512	2492	2517	2544	705
25°	1781	1731	1689	1741	1798	814
35°	1000	958	943	965	1005	612
45°	244	299	379	299	244	211
55°	57	67	77	67	57	54
65°	5	2	10	2	5	6
75°	0	0	0	0	0	1
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°	3197.7	3197.7	3197.7	3197.7	3197.7
2.5°	3170.3	3167.8	3167.8	3170.3	3170.3
5°	3095.5	3098.0	3095.5	3100.4	3102.9
7.5°	2988.2	2988.2	2985.7	2990.7	2998.2
10°	2858.5	2848.5	2843.5	2853.5	2863.5
12.5°	2693.9	2686.4	2676.4	2693.9	2713.8
15°	2529.2	2511.8	2491.8	2516.8	2544.2
17.5°	2354.6	2319.7	2297.3	2329.7	2359.6
20°	2162.6	2127.7	2095.2	2130.2	2177.5
22.5°	1975.5	1925.6	1893.2	1933.1	1988.0
25°	1780.9	1731.1	1688.7	1741.0	1798.4
27.5°	1586.4	1534.0	1486.6	1544.0	1611.3
30°	1401.8	1337.0	1292.1	1351.9	1411.8
32.5°	1197.3	1137.4	1112.5	1154.9	1217.2
35°	1000.2	957.8	942.9	965.3	1005.2
37.5°	785.7	775.7	780.7	790.7	798.2
40°	561.2	608.6	628.6	611.1	561.2
42.5°	374.1	439.0	491.4	439.0	379.1
45°	244.4	299.3	379.1	299.3	244.4
47.5°	159.6	202.0	281.9	199.5	159.6
50°	114.7	134.7	197.1	134.7	112.2
52.5°	82.3	94.8	127.2	94.8	82.3
55°	57.4	67.3	77.3	67.3	57.4
57.5°	37.4	44.9	44.9	44.9	37.4
60°	20.0	27.4	29.9	27.4	20.0
62.5°	5.0	12.5	17.5	12.5	5.0
65°	5.0	2.5	10.0	2.5	5.0
67.5°	2.5	2.5	5.0	2.5	2.5
70°	2.5	2.5	2.5	2.5	2.5
72.5°	2.5	2.5	2.5	2.5	2.5
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)