

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: P238046

Luminaire Tested: **PRS630D010-S6M24-64SNDH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238046  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-7)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-64SNDH  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3131.5 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

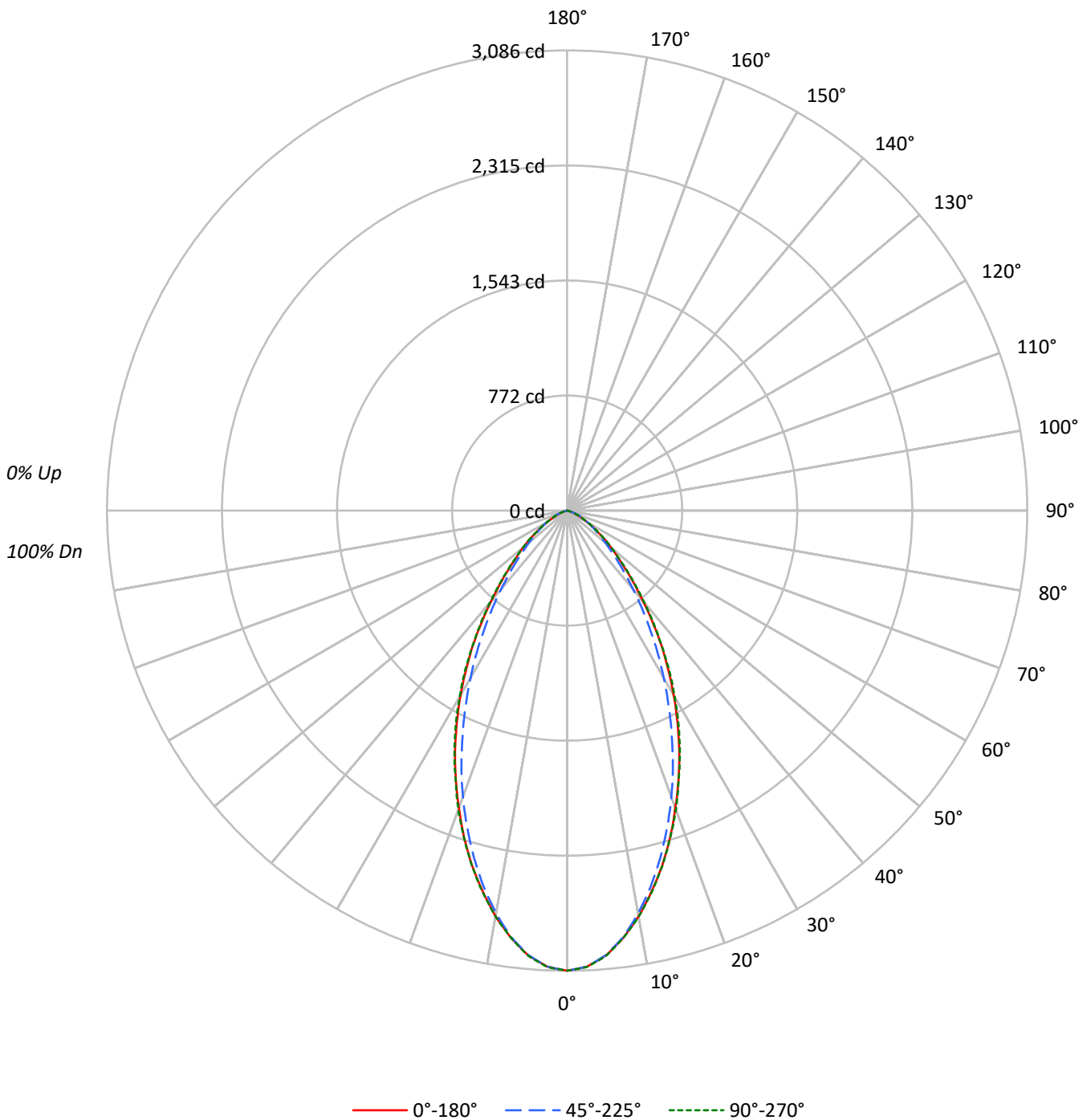
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83					83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	56	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43					43			

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

	0°	45°	90°
0°	132861	132861	132861
5°	129427	129306	129544
10°	120767	119919	120890
15°	109818	107474	109939
20°	97173	93626	97805
25°	84462	78814	84989
30°	71070	64338	71621
35°	57844	50722	57991
40°	44447	38697	45071
45°	33502	29130	34178
50°	25561	22225	26117
55°	19097	17438	19097
60°	13330	14045	13571
65°	9016	10707	9291
70°	6269	6962	5917
75°	2761	3227	2761
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.1	8.9
10°-20°	679.3	21.7
20°-30°	785.8	25.1
30°-40°	643.2	20.5
40°-50°	402.3	12.8
50°-60°	221.3	7.1
60°-70°	98.7	3.2
70°-80°	22.6	0.7
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°	1743.2	55.7
0°-40°	2386.5	76.2
0°-60°	3010.1	96.1
0°-90°	3131.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3131.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3086	3086	3086	3086	3086	
5°	2995	2992	2992	2997	2997	278
15°	2464	2436	2411	2442	2466	687
25°	1778	1709	1659	1717	1789	813
35°	1100	1018	965	1026	1103	684
45°	550	503	478	512	561	432
55°	254	243	232	249	254	231
65°	88	97	105	97	91	93
75°	17	19	19	19	17	20
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°	3085.8	3085.8	3085.8	3085.8	3085.8
2.5°	3060.9	3063.7	3060.9	3063.7	3063.7
5°	2994.6	2991.8	2991.8	2997.3	2997.3
7.5°	2889.5	2886.7	2884.0	2889.5	2889.5
10°	2762.3	2756.8	2742.9	2759.5	2765.1
12.5°	2615.8	2604.7	2585.3	2604.7	2621.3
15°	2463.7	2436.0	2411.1	2441.6	2466.4
17.5°	2297.8	2261.8	2228.6	2259.1	2300.5
20°	2120.8	2079.3	2043.4	2082.1	2134.6
22.5°	1952.1	1894.1	1852.6	1899.6	1954.9
25°	1777.9	1708.8	1659.0	1717.1	1789.0
27.5°	1601.0	1526.3	1473.8	1537.4	1617.6
30°	1429.5	1349.4	1294.1	1363.2	1440.6
32.5°	1258.1	1183.4	1128.1	1194.5	1277.5
35°	1100.5	1017.5	965.0	1025.8	1103.3
37.5°	937.4	862.7	821.2	873.8	951.2
40°	790.8	724.4	688.5	735.5	801.9
42.5°	663.6	605.5	575.1	611.1	677.4
45°	550.2	503.2	478.4	511.5	561.3
47.5°	456.2	420.3	395.4	425.8	464.5
50°	381.6	348.4	331.8	353.9	389.9
52.5°	315.2	293.1	273.7	295.9	323.5
55°	254.4	243.3	232.3	248.9	254.4
57.5°	199.1	196.3	193.6	199.1	201.8
60°	154.8	157.6	163.1	157.6	157.6
62.5°	118.9	124.4	135.5	124.4	121.7
65°	88.5	96.8	105.1	96.8	91.2
67.5°	66.4	71.9	77.4	71.9	66.4
70°	49.8	52.5	55.3	52.5	47.0
72.5°	30.4	35.9	35.9	35.9	30.4
75°	16.6	19.4	19.4	19.4	16.6
77.5°	2.8	8.3	8.3	8.3	2.8
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)