

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: P238061

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238061  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-8)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-64SMDH  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM 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: 3073.4 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

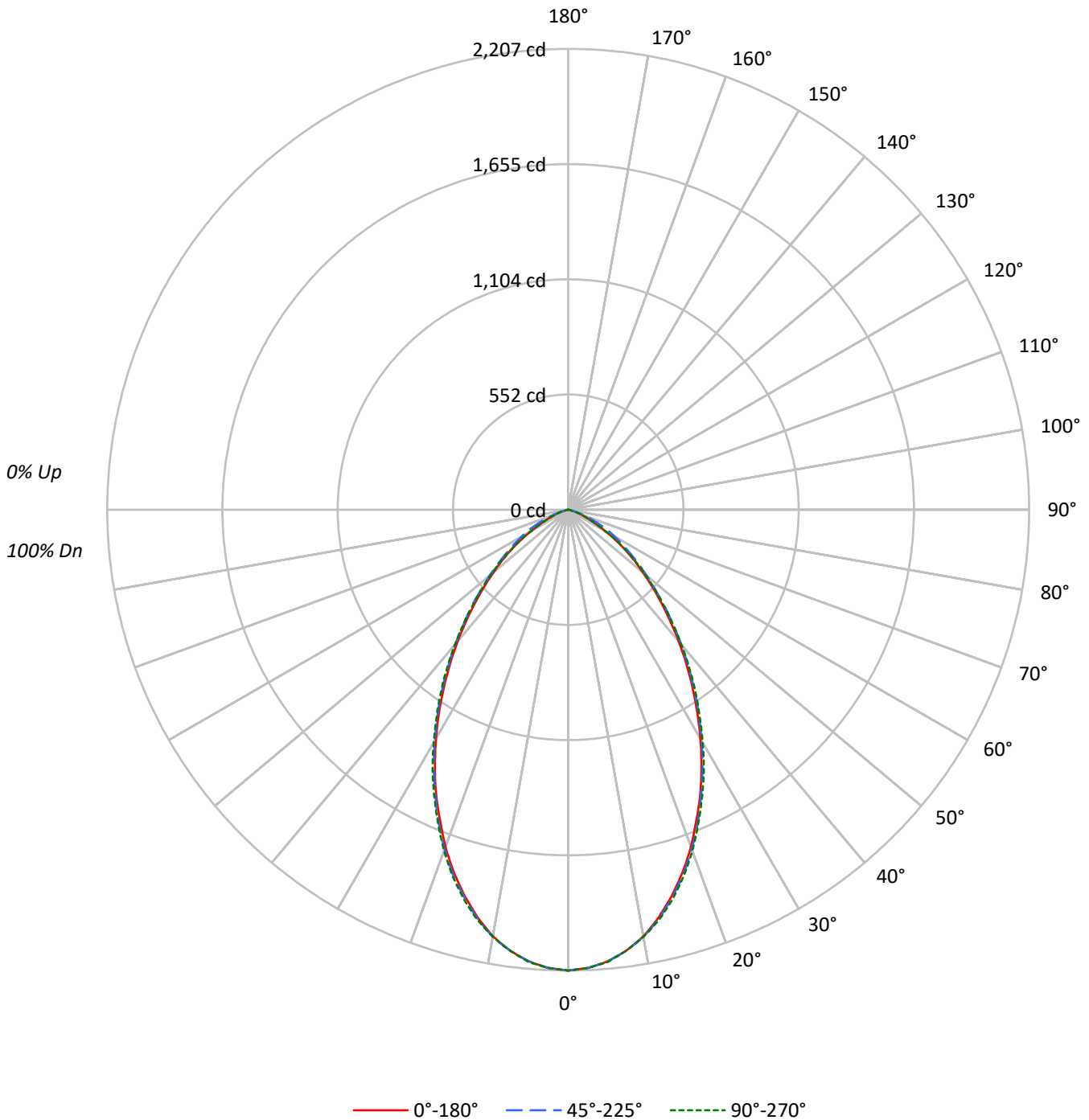
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72					72			
4	91	81	74	69	89	80	73	68	78	72	68	75	71	67	73	69	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52					52			
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44					44			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	45	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	45°	90°
0°	95041	95041	95041
5°	93853	93853	93969
10°	90710	90828	90828
15°	85338	85708	86078
20°	78735	79239	79619
25°	71136	71531	72053
30°	62906	63458	64005
35°	54453	55326	55762
40°	46274	47207	47358
45°	38355	39700	39195
50°	31087	32755	32011
55°	24681	26956	25094
60°	17601	22122	17601
65°	11543	16891	11818
70°	7654	10436	7994
75°	3676	4591	3676
80°	0	694	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.3	6.6
10°-20°	537.9	17.5
20°-30°	690.3	22.5
30°-40°	656.1	21.3
40°-50°	501.0	16.3
50°-60°	313.0	10.2
60°-70°	139.8	4.5
70°-80°	30.9	1.0
80°-90°	0.1	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°	1432.4	46.6
0°-40°	2088.6	68.0
0°-60°	2902.6	94.4
0°-90°	3073.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3073.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2207	2207	2207	2207	2207	
5°	2172	2172	2172	2174	2174	204
15°	1914	1917	1923	1928	1931	536
25°	1497	1500	1506	1511	1517	685
35°	1036	1047	1053	1055	1061	648
45°	630	644	652	655	644	488
55°	329	348	359	354	334	295
65°	113	130	166	133	116	118
75°	22	28	28	28	22	25
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°	2207.4	2207.4	2207.4	2207.4	2207.4
2.5°	2196.3	2196.3	2196.3	2196.3	2196.3
5°	2171.5	2171.5	2171.5	2174.2	2174.2
7.5°	2130.0	2130.0	2130.0	2132.8	2130.0
10°	2074.8	2074.8	2077.5	2077.5	2077.5
12.5°	2000.2	2002.9	2005.7	2008.5	2011.2
15°	1914.5	1917.3	1922.8	1928.4	1931.1
17.5°	1820.6	1820.6	1831.7	1840.0	1840.0
20°	1718.4	1721.2	1729.4	1732.2	1737.7
22.5°	1605.1	1613.4	1621.7	1624.5	1627.2
25°	1497.4	1500.1	1505.7	1511.2	1516.7
27.5°	1381.3	1384.1	1392.4	1395.2	1406.2
30°	1265.3	1270.8	1276.4	1281.9	1287.4
32.5°	1149.3	1154.8	1163.1	1165.9	1171.4
35°	1036.0	1047.1	1052.6	1055.3	1060.9
37.5°	928.3	939.3	942.1	950.4	950.4
40°	823.3	834.3	839.9	845.4	842.6
42.5°	721.1	734.9	740.4	748.7	740.4
45°	629.9	643.7	652.0	654.8	643.7
47.5°	544.2	560.8	563.6	566.4	560.8
50°	464.1	480.7	489.0	491.8	477.9
52.5°	397.8	411.6	419.9	417.2	406.1
55°	328.8	348.1	359.1	353.6	334.3
57.5°	265.2	287.3	303.9	290.1	270.7
60°	204.4	229.3	256.9	234.8	204.4
62.5°	151.9	176.8	212.7	176.8	151.9
65°	113.3	129.8	165.8	132.6	116.0
67.5°	82.9	96.7	124.3	96.7	85.6
70°	60.8	71.8	82.9	71.8	63.5
72.5°	41.4	49.7	49.7	49.7	41.4
75°	22.1	27.6	27.6	27.6	22.1
77.5°	2.8	8.3	11.1	8.3	2.8
80°	0.0	0.0	2.8	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)