

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: P238241

Luminaire Tested: **PRS630D010-S6M24-61SMDH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238241  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-20)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-61SMDH  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2885.5 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

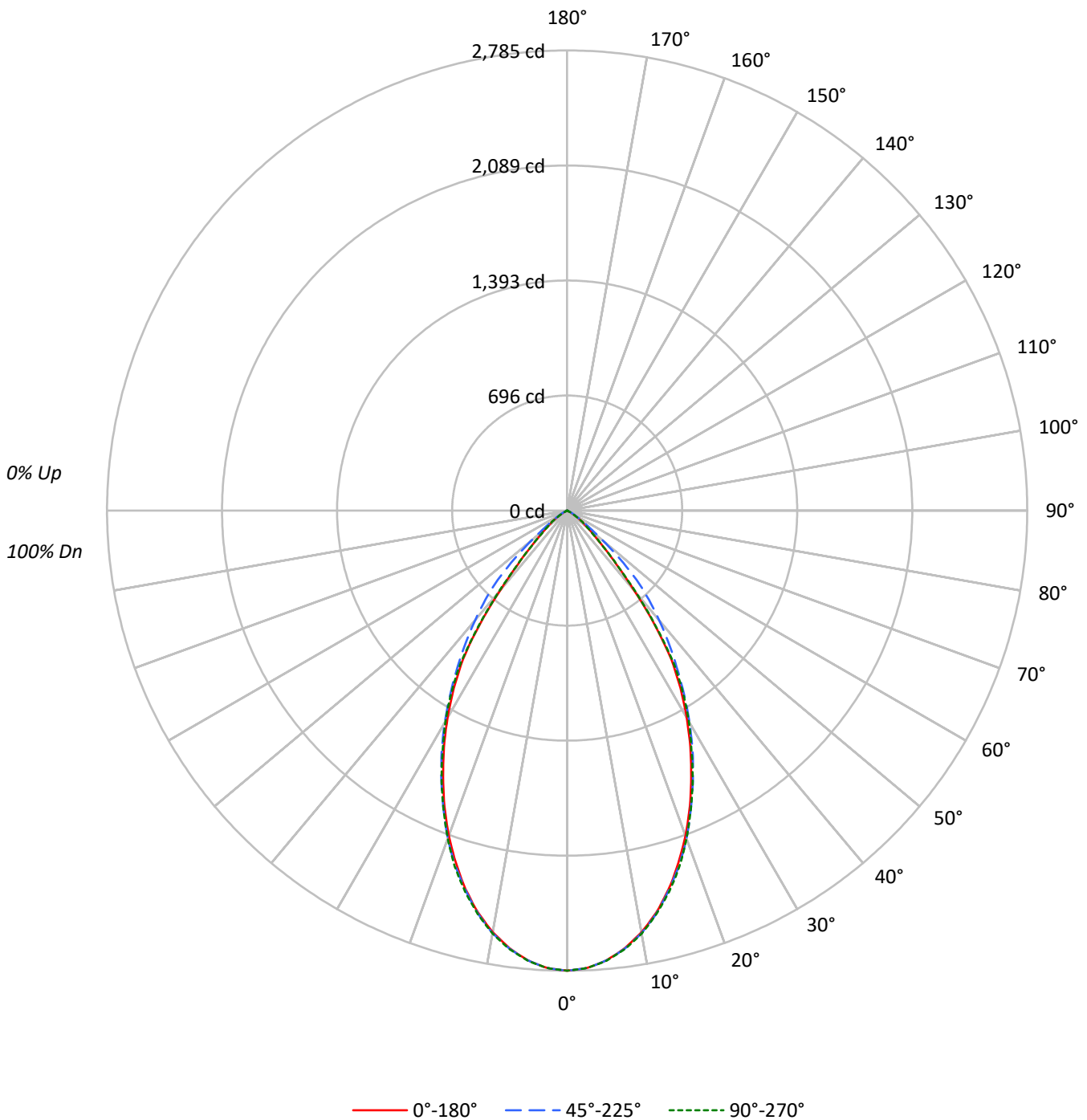
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	103	104	102	100		100	99	97		97	96	94	93
2	107	102	97	94	105	100	96	93	97	93	91		94	91	89		91	89	87	85
3	101	94	89	84	99	93	88	84	90	86	82		87	84	81		85	82	80	78
4	95	87	81	77	93	86	80	76	84	79	75		82	78	74		80	76	73	72
5	90	81	75	70	88	80	74	70	78	73	69		76	72	68		75	71	68	66
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70	66	63	61
7	80	70	64	59	79	70	63	59	68	63	59		67	62	58		66	61	58	57
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62	57	54	52
9	72	62	55	51	71	61	55	51	60	55	51		59	54	50		58	54	50	49
10	68	58	52	48	67	57	51	47	57	51	47		56	51	47		55	50	47	46

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

	0°	45°	90°
0°	119901	119901	119901
5°	118095	118095	118211
10°	113300	113540	113659
15°	105784	106029	106399
20°	95954	96838	96838
25°	84391	85574	85441
30°	71974	73620	73207
35°	57796	60698	58958
40°	35246	48601	36337
45°	18675	36169	18839
50°	10731	18688	10731
55°	6636	8085	6636
60°	2377	3806	2377
65°	560	1406	560
70°	352	352	352
75°	466	466	466
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.6	8.9
10°-20°	664.5	23.0
20°-30°	820.2	28.4
30°-40°	700.5	24.3
40°-50°	335.2	11.6
50°-60°	94.3	3.3
60°-70°	12.3	0.4
70°-80°	1.8	0.1
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°	1741.3	60.3
0°-40°	2441.8	84.6
0°-60°	2871.3	99.5
0°-90°	2885.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2885.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2785	2785	2785	2785	2785	
5°	2732	2735	2732	2735	2735	256
15°	2373	2376	2379	2387	2387	662
25°	1776	1785	1801	1801	1798	813
35°	1100	1141	1155	1155	1122	663
45°	307	381	594	384	309	258
55°	88	102	108	100	88	79
65°	6	6	14	6	6	8
75°	3	3	3	3	3	2
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°	2784.8	2784.8	2784.8	2784.8	2784.8
2.5°	2771.0	2771.0	2771.0	2771.0	2771.0
5°	2732.4	2735.1	2732.4	2735.1	2735.1
7.5°	2671.6	2674.3	2674.3	2677.1	2677.1
10°	2591.5	2594.2	2597.0	2597.0	2599.7
12.5°	2492.0	2492.0	2497.5	2500.3	2500.3
15°	2373.2	2376.0	2378.7	2387.0	2387.0
17.5°	2237.8	2243.3	2251.6	2254.4	2259.9
20°	2094.2	2094.2	2113.5	2110.7	2113.5
22.5°	1939.4	1947.7	1956.0	1961.5	1956.0
25°	1776.4	1784.7	1801.3	1801.3	1798.5
27.5°	1613.4	1621.7	1643.8	1635.5	1630.0
30°	1447.7	1456.0	1480.8	1467.0	1472.5
32.5°	1276.4	1301.3	1315.1	1315.1	1301.3
35°	1099.6	1141.0	1154.8	1154.8	1121.7
37.5°	870.3	969.7	1008.4	978.0	881.3
40°	627.1	757.0	864.7	770.8	646.5
42.5°	439.3	549.8	732.1	558.1	444.8
45°	306.7	381.3	594.0	384.0	309.4
47.5°	215.5	265.2	431.0	265.2	215.5
50°	160.2	187.9	279.0	185.1	160.2
52.5°	121.6	138.1	171.3	135.4	121.6
55°	88.4	102.2	107.7	99.5	88.4
57.5°	55.3	69.1	69.1	69.1	52.5
60°	27.6	38.7	44.2	38.7	27.6
62.5°	8.3	16.6	27.6	16.6	8.3
65°	5.5	5.5	13.8	5.5	5.5
67.5°	5.5	5.5	5.5	5.5	5.5
70°	2.8	2.8	2.8	2.8	2.8
72.5°	2.8	2.8	2.8	2.8	2.8
75°	2.8	2.8	2.8	2.8	2.8
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)