

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: P238286

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-23)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-61SMDC  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2949.1 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.87 / 0.9  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

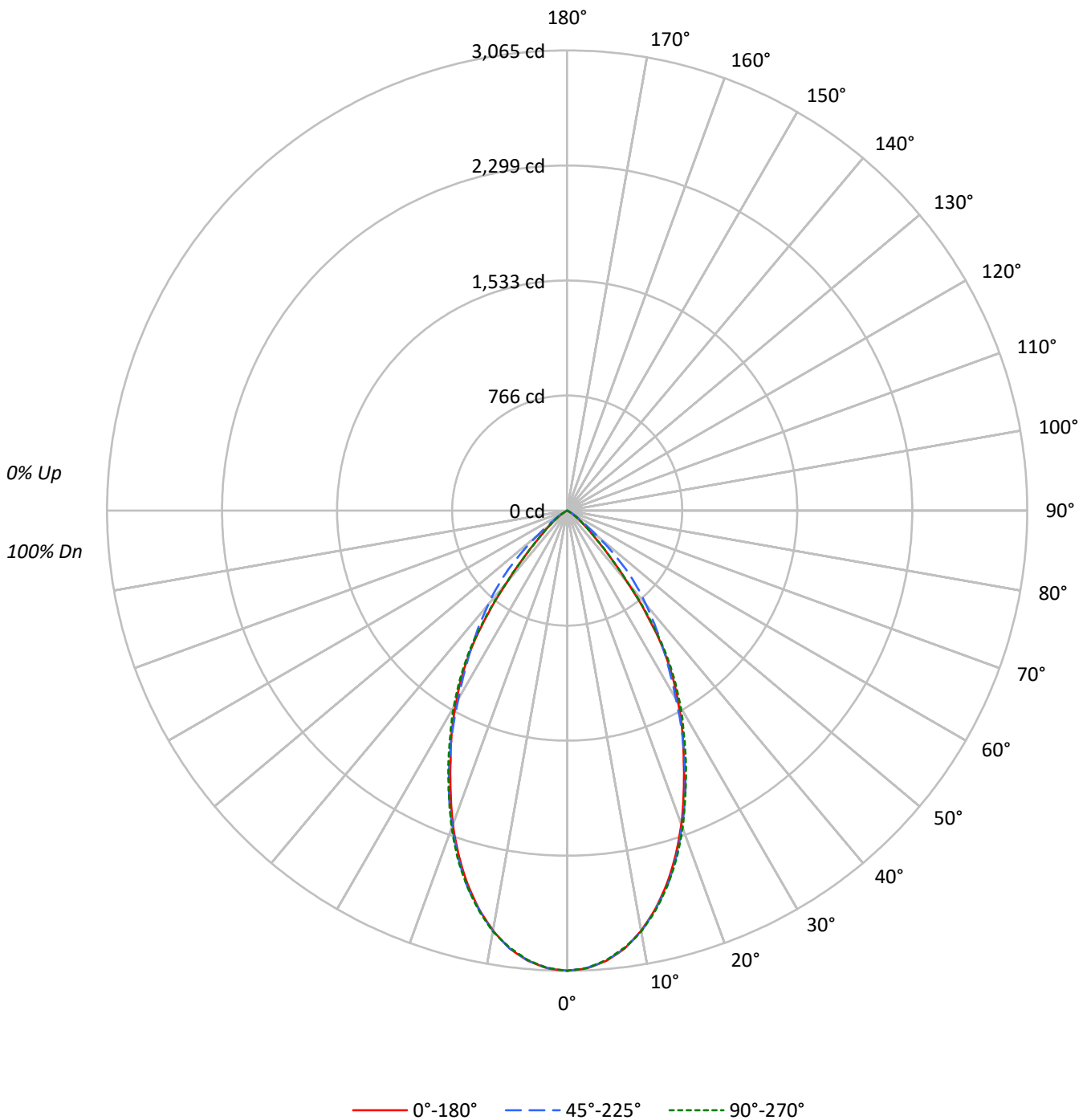
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	104	104	102	101		100	99	98		97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91		94	92	89		91	89	87	86
3	101	95	89	85	99	93	88	84	91	86	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	81	77	84	80	76		82	78	75		81	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70		77	73	69		76	72	69	67
6	86	76	70	65	84	75	69	65	74	69	65		72	68	64		71	67	64	62
7	81	71	65	60	80	71	65	60	69	64	60		68	63	60		67	63	59	58
8	77	67	60	56	76	66	60	56	65	60	56		64	59	55		63	59	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	52	50
10	69	59	53	49	68	59	53	49	58	52	49		57	52	49		56	52	48	47

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

	0°	45°	90°
0°	131979	131979	131979
5°	130097	129976	129855
10°	124230	124348	124470
15°	114583	115198	115198
20°	101952	102456	103088
25°	87322	88111	88899
30°	73655	72009	75166
35°	57970	58259	59273
40°	35263	45830	35887
45°	17841	33660	18176
50°	9813	17034	9813
55°	5397	7056	5600
60°	1429	3091	1429
65°	0	1131	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°	281.9	9.6
10°-20°	718.5	24.4
20°-30°	848.5	28.8
30°-40°	692.6	23.5
40°-50°	317.9	10.8
50°-60°	82.6	2.8
60°-70°	7.0	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°	1848.9	62.7
0°-40°	2541.6	86.2
0°-60°	2942.1	99.8
0°-90°	2949.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2949.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3065	3065	3065	3065	3065	
5°	3010	3010	3007	3007	3004	282
15°	2571	2576	2584	2587	2584	716
25°	1838	1835	1855	1866	1871	844
35°	1103	1133	1108	1150	1128	669
45°	293	362	553	365	298	251
55°	72	88	94	88	75	67
65°	0	0	11	0	0	3
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°	3065.3	3065.3	3065.3	3065.3	3065.3
2.5°	3051.5	3051.5	3048.8	3048.8	3048.8
5°	3010.1	3010.1	3007.3	3007.3	3004.5
7.5°	2941.0	2941.0	2941.0	2938.2	2935.4
10°	2841.5	2841.5	2844.2	2844.2	2847.0
12.5°	2717.1	2719.8	2719.8	2725.4	2725.4
15°	2570.6	2576.1	2584.4	2587.2	2584.4
17.5°	2404.7	2410.3	2418.6	2429.6	2426.8
20°	2225.1	2227.8	2236.1	2252.7	2249.9
22.5°	2028.8	2034.4	2056.5	2062.0	2056.5
25°	1838.1	1835.3	1854.7	1865.7	1871.3
27.5°	1664.0	1650.1	1652.9	1669.5	1686.1
30°	1481.5	1476.0	1448.4	1492.6	1511.9
32.5°	1301.9	1304.6	1268.7	1315.7	1326.8
35°	1102.9	1133.3	1108.4	1149.9	1127.7
37.5°	865.2	948.1	956.4	961.9	887.3
40°	627.4	735.2	815.4	740.8	638.5
42.5°	436.7	525.2	688.3	536.2	434.0
45°	293.0	362.1	552.8	364.9	298.5
47.5°	204.5	243.2	400.8	246.0	204.5
50°	146.5	168.6	254.3	171.4	146.5
52.5°	107.8	121.6	154.8	121.6	107.8
55°	71.9	88.5	94.0	88.5	74.6
57.5°	44.2	58.0	60.8	58.0	41.5
60°	16.6	30.4	35.9	30.4	16.6
62.5°	2.8	8.3	22.1	11.1	2.8
65°	0.0	0.0	11.1	0.0	0.0
67.5°	0.0	0.0	2.8	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)