

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: P253026

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253026  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-64SWDMW  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2935.3 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

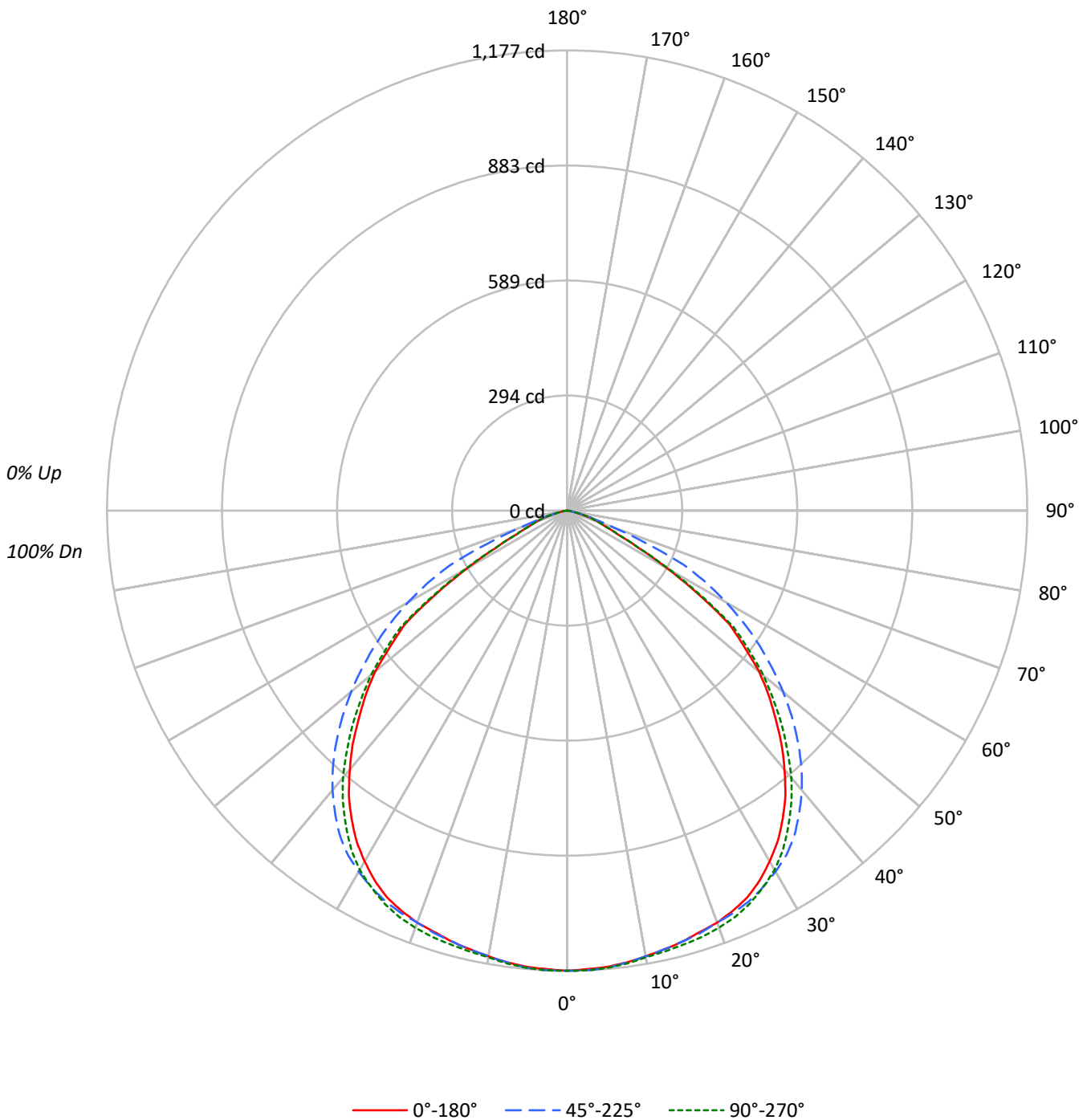
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

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

	0°	45°	90°
0°	50672	50672	50672
5°	50628	50745	50745
10°	50610	50610	50728
15°	50860	50860	51229
20°	51390	51390	52027
25°	51839	52367	52628
30°	51506	53018	52744
35°	50532	53292	51841
40°	48601	52484	50152
45°	45923	50800	47269
50°	42929	48301	43854
55°	37953	45002	38989
60°	25455	40446	26169
65°	14355	33498	14355
70°	10776	16340	10436
75°	6438	7353	6887
80°	2752	3422	2752
85°	1383	1383	1383



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.5	3.8
10°-20°	323.4	11.0
20°-30°	506.7	17.3
30°-40°	619.0	21.1
40°-50°	615.4	21.0
50°-60°	485.9	16.6
60°-70°	217.5	7.4
70°-80°	50.7	1.7
80°-90°	5.3	0.2
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°	941.5	32.1
0°-40°	1560.5	53.2
0°-60°	2661.8	90.7
0°-90°	2935.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2935.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1171	1171	1174	1174	1174	111
15°	1141	1138	1141	1144	1149	323
25°	1091	1094	1102	1105	1108	502
35°	961	981	1014	1000	986	600
45°	754	790	834	810	776	582
55°	506	544	600	555	519	432
65°	141	185	329	188	141	158
75°	39	47	44	47	41	44
85°	3	3	3	3	3	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1176.9	1176.9	1176.9	1176.9	1176.9
2.5°	1174.1	1176.9	1176.9	1176.9	1176.9
5°	1171.4	1171.4	1174.1	1174.1	1174.1
7.5°	1165.8	1165.8	1165.8	1168.6	1168.6
10°	1157.6	1157.6	1157.6	1160.3	1160.3
12.5°	1149.3	1149.3	1149.3	1152.0	1154.8
15°	1141.0	1138.2	1141.0	1143.7	1149.3
17.5°	1129.9	1132.7	1132.7	1138.2	1143.7
20°	1121.6	1121.6	1121.6	1129.9	1135.5
22.5°	1107.8	1107.8	1113.3	1118.9	1124.4
25°	1091.2	1094.0	1102.3	1105.1	1107.8
27.5°	1066.4	1074.7	1085.7	1088.5	1085.7
30°	1036.0	1047.0	1066.4	1063.6	1060.9
32.5°	1002.8	1016.7	1044.3	1036.0	1027.7
35°	961.4	980.7	1013.9	1000.1	986.3
37.5°	917.2	942.1	975.2	961.4	942.1
40°	864.7	895.1	933.8	914.4	892.3
42.5°	812.2	845.4	886.8	861.9	834.3
45°	754.2	790.1	834.3	809.5	776.3
47.5°	699.0	734.9	779.1	748.7	715.5
50°	640.9	674.1	721.1	687.9	654.7
52.5°	569.1	613.3	660.3	624.4	585.7
55°	505.6	544.2	599.5	555.3	519.4
57.5°	397.8	475.2	536.0	483.5	408.9
60°	295.6	370.2	469.7	381.2	303.9
62.5°	204.4	273.5	403.3	276.3	207.2
65°	140.9	185.1	328.8	187.9	140.9
67.5°	105.0	124.3	221.0	124.3	105.0
70°	85.6	91.2	129.8	91.2	82.9
72.5°	63.5	71.8	71.8	71.8	66.3
75°	38.7	47.0	44.2	47.0	41.4
77.5°	16.6	22.1	27.6	24.9	16.6
80°	11.1	11.1	13.8	11.1	11.1
82.5°	8.3	8.3	8.3	8.3	8.3
85°	2.8	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	2.8	2.8	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)