

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: P238196

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238196  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-17)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-61SMDMW  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP 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: 2946.3 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.97 / 1.03  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

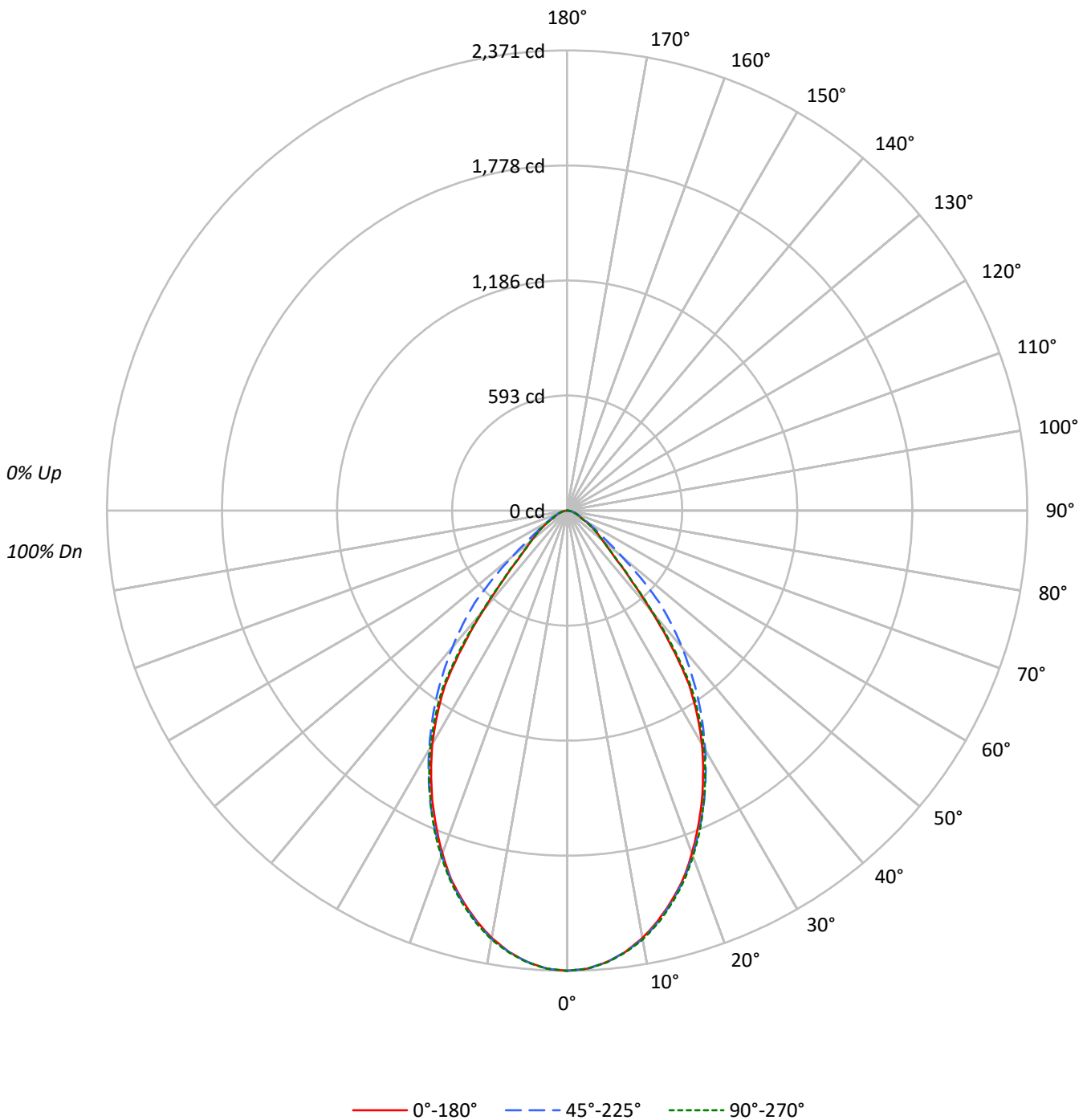
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	79	84	81	77	82	79	76	74					74			
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	61					61			
6	82	71	64	59	80	71	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52					52			
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48					48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	47	43	64	54	47	43	53	47	43	52	46	43	51	46	43	41					41			

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

	0°	45°	90°
0°	102094	102094	102094
5°	100932	100932	101053
10°	97749	97989	98112
15°	92760	93009	93254
20°	86107	86611	86868
25°	78120	79170	79037
30°	69111	70761	70075
35°	57523	61738	58832
40°	37899	51726	38675
45°	22213	41058	22889
50°	15922	24435	15922
55°	12446	14525	12656
60°	9042	10471	9042
65°	7325	8160	7325
70°	6257	6609	6609
75°	5523	5523	5523
80°	4785	4785	4785
85°	4100	4100	4100



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.0	7.5
10°-20°	584.1	19.8
20°-30°	759.8	25.8
30°-40°	701.5	23.8
40°-50°	388.4	13.2
50°-60°	168.0	5.7
60°-70°	77.2	2.6
70°-80°	37.2	1.3
80°-90°	10.0	0.3
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°	1563.9	53.1
0°-40°	2265.4	76.9
0°-60°	2821.9	95.8
0°-90°	2946.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2946.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2371	2371	2371	2371	2371	
5°	2335	2338	2335	2338	2338	220
15°	2081	2084	2087	2092	2092	583
25°	1644	1650	1666	1669	1664	752
35°	1094	1136	1175	1150	1119	660
45°	365	448	674	459	376	305
55°	166	185	194	185	169	149
65°	72	75	80	75	72	72
75°	33	36	33	36	33	35
85°	8	8	8	8	8	10
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2371.2	2371.2	2371.2	2371.2	2371.2
2.5°	2362.9	2362.9	2362.9	2362.9	2362.9
5°	2335.3	2338.1	2335.3	2338.1	2338.1
7.5°	2293.8	2296.6	2293.8	2296.6	2296.6
10°	2235.8	2235.8	2241.3	2241.3	2244.1
12.5°	2163.9	2166.7	2169.5	2172.2	2175.0
15°	2081.0	2083.8	2086.6	2092.1	2092.1
17.5°	1989.8	1987.1	1995.4	1995.4	2000.9
20°	1879.3	1884.8	1890.3	1893.1	1895.9
22.5°	1763.2	1768.7	1779.8	1782.6	1785.3
25°	1644.4	1649.9	1666.5	1669.2	1663.7
27.5°	1517.2	1531.1	1544.9	1542.1	1539.4
30°	1390.1	1398.4	1423.3	1415.0	1409.5
32.5°	1246.4	1274.0	1296.2	1285.1	1268.5
35°	1094.4	1135.9	1174.6	1149.7	1119.3
37.5°	887.1	994.9	1044.7	1006.0	914.8
40°	674.3	801.5	920.3	815.3	688.1
42.5°	491.9	608.0	795.9	621.8	500.2
45°	364.8	447.7	674.3	458.8	375.9
47.5°	284.7	342.7	514.0	342.7	287.4
50°	237.7	268.1	364.8	270.8	237.7
52.5°	199.0	221.1	259.8	221.1	199.0
55°	165.8	185.2	193.5	185.2	168.6
57.5°	132.7	152.0	149.2	152.0	135.4
60°	105.0	118.8	121.6	118.8	105.0
62.5°	80.1	91.2	99.5	91.2	80.1
65°	71.9	74.6	80.1	74.6	71.9
67.5°	60.8	63.6	63.6	63.6	60.8
70°	49.7	52.5	52.5	52.5	52.5
72.5°	41.5	44.2	44.2	44.2	41.5
75°	33.2	35.9	33.2	35.9	33.2
77.5°	24.9	27.6	27.6	27.6	27.6
80°	19.3	19.3	19.3	19.3	19.3
82.5°	13.8	13.8	13.8	13.8	13.8
85°	8.3	8.3	8.3	8.3	8.3
87.5°	5.5	5.5	2.8	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)