

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: P238016

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-64SMDMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM 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: 3123.2 lumens
Efficiency: N/A
Efficacy: 122.5 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

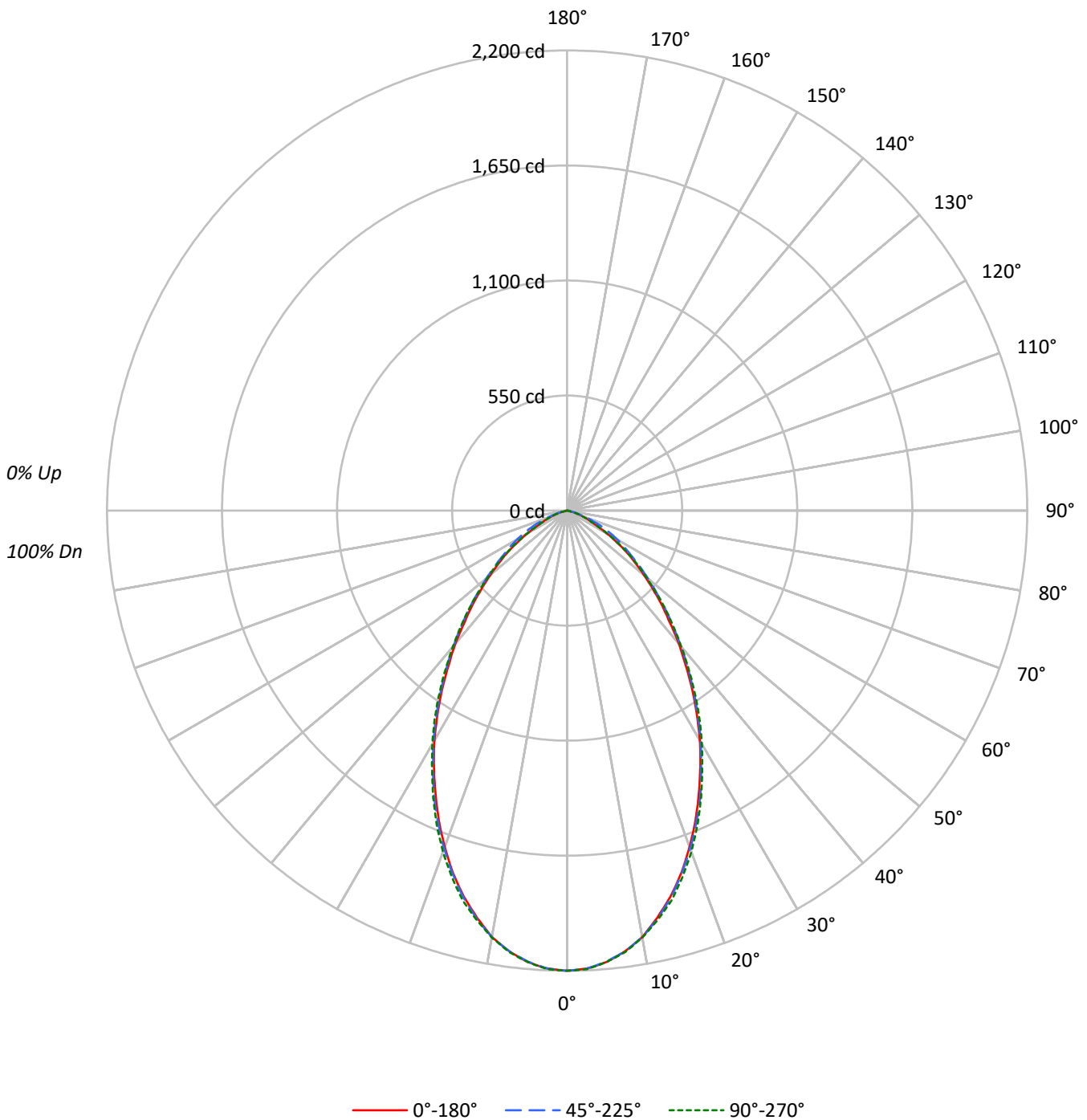
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90					90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71					71			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	60	71	65	60	69	64	59	67	62	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47					47			
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	94718	94718	94718
5°	93645	93524	93645
10°	90500	90500	90618
15°	85124	85369	85984
20°	78382	78763	79523
25°	70766	71555	71949
30°	63065	63478	64030
35°	54764	55347	55925
40°	46757	47533	47684
45°	39043	40218	40218
50°	32212	33692	32949
55°	25935	28007	26551
60°	19039	23801	19513
65°	12949	18868	13234
70°	9391	12173	9391
75°	5523	6438	5057
80°	1364	2058	1364
85°	1383	1383	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	6.5
10°-20°	536.2	17.2
20°-30°	688.4	22.0
30°-40°	657.8	21.1
40°-50°	509.5	16.3
50°-60°	327.6	10.5
60°-70°	155.3	5.0
70°-80°	41.5	1.3
80°-90°	3.1	0.1
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°	1428.3	45.7
0°-40°	2086.1	66.8
0°-60°	2923.2	93.6
0°-90°	3123.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3123.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2200	2200	2200	2200	2200	
5°	2167	2167	2164	2167	2167	204
15°	1910	1912	1915	1924	1929	534
25°	1490	1492	1506	1509	1514	684
35°	1042	1045	1053	1058	1064	650
45°	641	655	660	666	660	496
55°	346	365	373	370	354	308
65°	127	146	185	146	130	133
75°	33	39	39	39	30	36
85°	3	3	3	3	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2199.9	2199.9	2199.9	2199.9	2199.9
2.5°	2191.6	2191.6	2191.6	2191.6	2194.3
5°	2166.7	2166.7	2163.9	2166.7	2166.7
7.5°	2125.2	2125.2	2125.2	2128.0	2128.0
10°	2070.0	2070.0	2070.0	2072.7	2072.7
12.5°	1992.6	1995.4	1998.1	2003.6	2003.6
15°	1909.7	1912.4	1915.2	1923.5	1929.0
17.5°	1815.7	1818.5	1821.2	1832.3	1835.1
20°	1710.7	1710.7	1719.0	1732.8	1735.6
22.5°	1602.9	1605.7	1614.0	1619.5	1627.8
25°	1489.6	1492.4	1506.2	1509.0	1514.5
27.5°	1379.1	1379.1	1387.4	1392.9	1398.4
30°	1268.5	1268.5	1276.8	1279.6	1287.9
32.5°	1152.4	1155.2	1163.5	1169.0	1177.3
35°	1041.9	1044.7	1053.0	1058.5	1064.0
37.5°	928.6	942.4	947.9	953.5	953.5
40°	831.9	840.1	845.7	854.0	848.4
42.5°	726.8	746.2	748.9	757.2	751.7
45°	641.2	655.0	660.5	666.0	660.5
47.5°	555.5	572.1	577.6	580.4	572.1
50°	480.9	494.7	503.0	503.0	491.9
52.5°	409.0	425.6	433.9	433.9	422.8
55°	345.5	364.8	373.1	370.3	353.7
57.5°	279.1	304.0	323.3	309.5	287.4
60°	221.1	248.7	276.4	251.5	226.6
62.5°	165.8	193.5	229.4	196.2	168.6
65°	127.1	146.5	185.2	146.5	129.9
67.5°	99.5	110.5	138.2	110.5	99.5
70°	74.6	82.9	96.7	82.9	74.6
72.5°	52.5	60.8	63.6	60.8	52.5
75°	33.2	38.7	38.7	38.7	30.4
77.5°	11.1	16.6	22.1	16.6	11.1
80°	5.5	5.5	8.3	5.5	5.5
82.5°	5.5	5.5	5.5	5.5	5.5
85°	2.8	2.8	2.8	2.8	2.8
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)