

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: P238201

Luminaire Tested: **PRS630D010-S6M24-61SMDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238201
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2809.7 lumens
Efficiency: N/A
Efficacy: 110.2 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

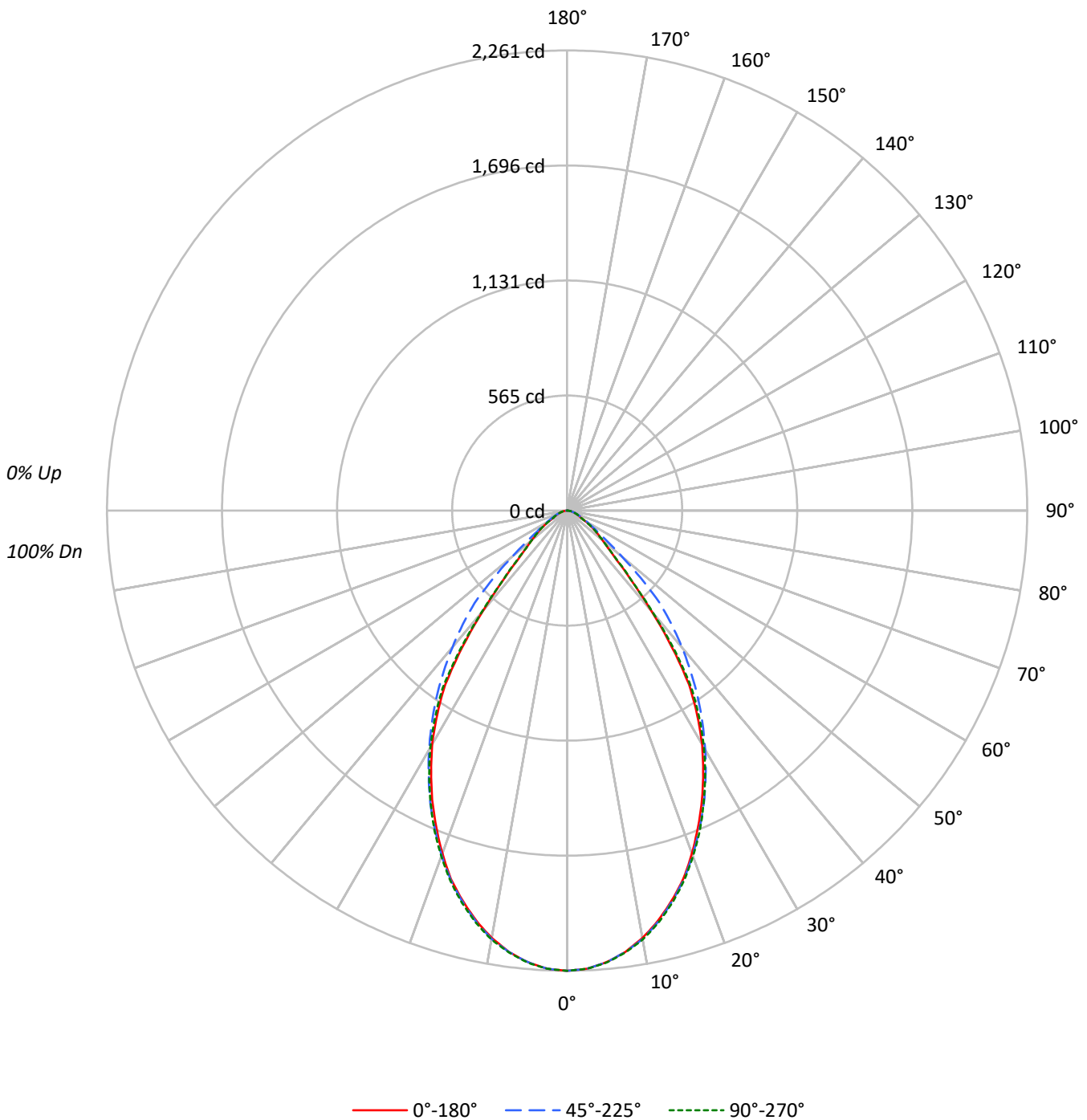
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238201

CATALOG NUMBER: PRS630D010-S6M24-61SMDMW-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P238201

CATALOG NUMBER: PRS630D010-S6M24-61SMDMW-4000K

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°	97362	97362	97362
5°	96251	96251	96368
10°	93219	93447	93565
15°	88463	88694	88931
20°	82117	82598	82841
25°	74500	75498	75374
30°	65909	67480	66824
35°	54858	58874	56104
40°	36146	49326	36887
45°	21184	39158	21823
50°	15185	23303	15185
55°	11868	13850	12070
60°	8628	9989	8628
65°	6979	7784	6979
70°	5967	6307	6307
75°	5257	5257	5257
80°	4562	4562	4562
85°	3903	3903	3903



TEST NUMBER: P238201

CATALOG NUMBER: PRS630D010-S6M24-61SMDMW-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	7.5
10°-20°	557.1	19.8
20°-30°	724.5	25.8
30°-40°	669.0	23.8
40°-50°	370.4	13.2
50°-60°	160.3	5.7
60°-70°	73.7	2.6
70°-80°	35.5	1.3
80°-90°	9.5	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°	1491.4	53.1
0°-40°	2160.4	76.9
0°-60°	2691.1	95.8
0°-90°	2809.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2809.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2261	2261	2261	2261	2261	
5°	2227	2230	2227	2230	2230	210
15°	1985	1987	1990	1995	1995	556
25°	1568	1573	1589	1592	1587	718
35°	1044	1083	1120	1096	1067	630
45°	348	427	643	438	358	291
55°	158	177	184	177	161	142
65°	68	71	76	71	68	68
75°	32	34	32	34	32	34
85°	8	8	8	8	8	10
90°	0	0	0	0	0	



TEST NUMBER: P238201

CATALOG NUMBER: PRS630D010-S6M24-61SMDMW-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2261.3	2261.3	2261.3	2261.3	2261.3
2.5°	2253.4	2253.4	2253.4	2253.4	2253.4
5°	2227.0	2229.7	2227.0	2229.7	2229.7
7.5°	2187.5	2190.1	2187.5	2190.1	2190.1
10°	2132.2	2132.2	2137.4	2137.4	2140.1
12.5°	2063.6	2066.3	2068.9	2071.5	2074.2
15°	1984.6	1987.2	1989.8	1995.1	1995.1
17.5°	1897.6	1895.0	1902.9	1902.9	1908.1
20°	1792.2	1797.4	1802.7	1805.4	1808.0
22.5°	1681.5	1686.8	1697.3	1699.9	1702.6
25°	1568.2	1573.4	1589.2	1591.9	1586.6
27.5°	1446.9	1460.1	1473.3	1470.6	1468.0
30°	1325.7	1333.6	1357.3	1349.4	1344.1
32.5°	1188.6	1215.0	1236.1	1225.5	1209.7
35°	1043.7	1083.2	1120.1	1096.4	1067.4
37.5°	846.0	948.8	996.2	959.3	872.4
40°	643.1	764.3	877.6	777.5	656.3
42.5°	469.1	579.8	759.0	593.0	477.0
45°	347.9	427.0	643.1	437.5	358.4
47.5°	271.5	326.8	490.2	326.8	274.1
50°	226.7	255.6	347.9	258.3	226.7
52.5°	189.8	210.8	247.7	210.8	189.8
55°	158.1	176.6	184.5	176.6	160.8
57.5°	126.5	145.0	142.3	145.0	129.1
60°	100.2	113.3	116.0	113.3	100.2
62.5°	76.4	87.0	94.9	87.0	76.4
65°	68.5	71.2	76.4	71.2	68.5
67.5°	58.0	60.6	60.6	60.6	58.0
70°	47.4	50.1	50.1	50.1	50.1
72.5°	39.5	42.2	42.2	42.2	39.5
75°	31.6	34.3	31.6	34.3	31.6
77.5°	23.7	26.4	26.4	26.4	26.4
80°	18.4	18.4	18.4	18.4	18.4
82.5°	13.2	13.2	13.2	13.2	13.2
85°	7.9	7.9	7.9	7.9	7.9
87.5°	5.3	5.3	2.6	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)