

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: P238191

Luminaire Tested: **PRS630D010-S6M24-61SMDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238191
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-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2658.3 lumens
Efficiency: N/A
Efficacy: 104.2 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

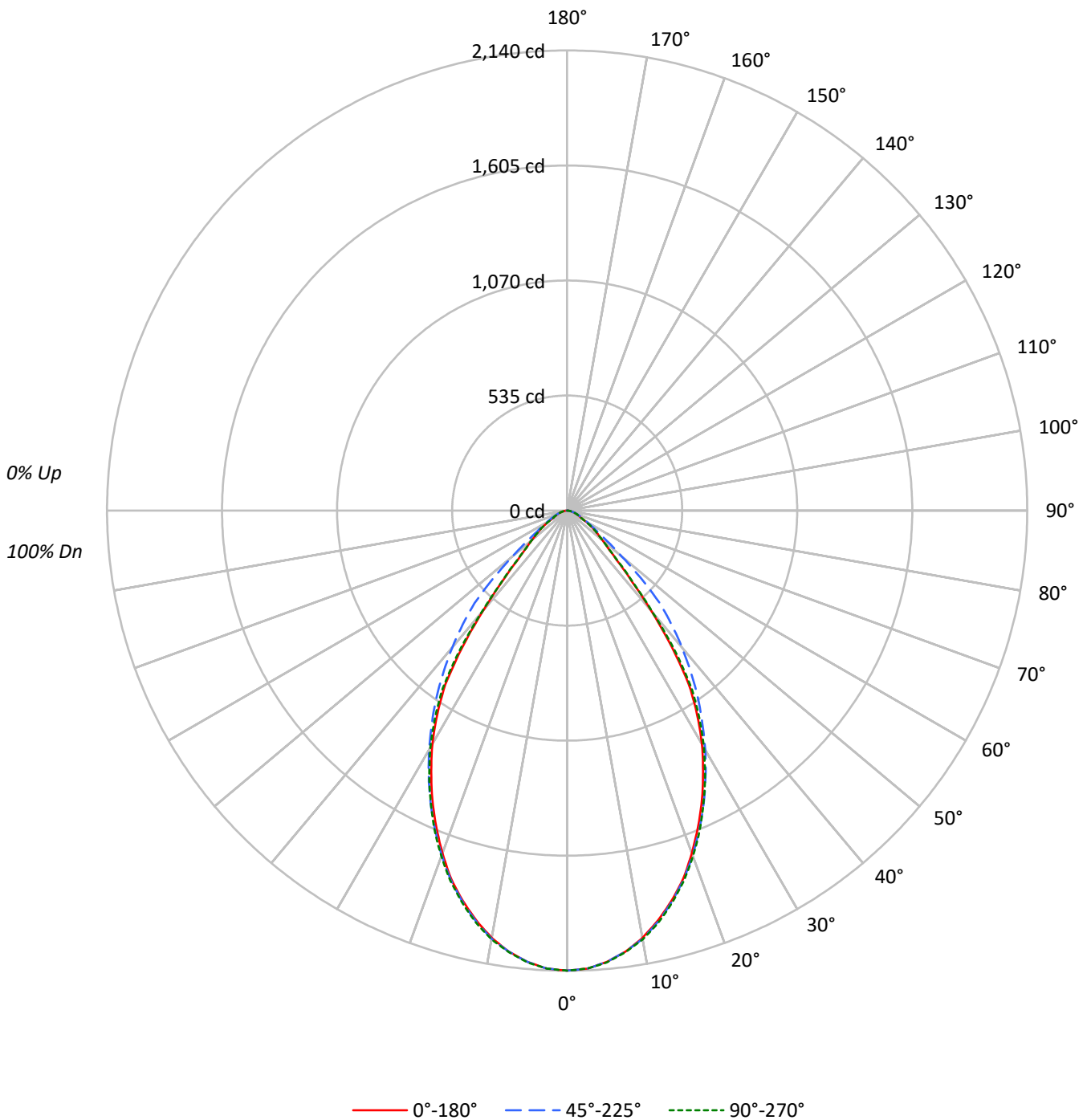
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	92118	92118	92118
5°	91065	91065	91173
10°	88196	88415	88524
15°	83693	83916	84139
20°	77690	78149	78378
25°	70486	71431	71312
30°	62359	63846	63224
35°	51899	55704	53082
40°	34195	46673	34898
45°	20039	37045	20648
50°	14361	22044	14361
55°	11230	13099	11417
60°	8163	9446	8163
65°	6602	7366	6602
70°	5652	5967	5967
75°	4974	4974	4974
80°	4339	4339	4339
85°	3705	3705	3705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	7.5
10°-20°	527.0	19.8
20°-30°	685.5	25.8
30°-40°	633.0	23.8
40°-50°	350.5	13.2
50°-60°	151.6	5.7
60°-70°	69.7	2.6
70°-80°	33.6	1.3
80°-90°	9.0	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°	1411.0	53.1
0°-40°	2044.0	76.9
0°-60°	2546.1	95.8
0°-90°	2658.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2658.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2140	2140	2140	2140	2140	
5°	2107	2110	2107	2110	2110	198
15°	1878	1880	1883	1888	1888	526
25°	1484	1489	1504	1506	1501	679
35°	987	1025	1060	1037	1010	596
45°	329	404	608	414	339	275
55°	150	167	174	167	152	134
65°	65	67	72	67	65	65
75°	30	32	30	32	30	32
85°	8	8	8	8	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2139.5	2139.5	2139.5	2139.5	2139.5
2.5°	2132.0	2132.0	2132.0	2132.0	2132.0
5°	2107.0	2109.5	2107.0	2109.5	2109.5
7.5°	2069.6	2072.1	2069.6	2072.1	2072.1
10°	2017.3	2017.3	2022.3	2022.3	2024.8
12.5°	1952.4	1954.9	1957.4	1959.9	1962.4
15°	1877.6	1880.1	1882.6	1887.6	1887.6
17.5°	1795.4	1792.9	1800.3	1800.3	1805.3
20°	1695.6	1700.6	1705.6	1708.1	1710.6
22.5°	1590.9	1595.9	1605.8	1608.3	1610.8
25°	1483.7	1488.6	1503.6	1506.1	1501.1
27.5°	1369.0	1381.4	1393.9	1391.4	1388.9
30°	1254.3	1261.7	1284.2	1276.7	1271.7
32.5°	1124.6	1149.5	1169.5	1159.5	1144.5
35°	987.4	1024.8	1059.8	1037.3	1009.9
37.5°	800.4	897.7	942.6	907.7	825.4
40°	608.4	723.1	830.4	735.6	620.9
42.5°	443.9	548.6	718.1	561.0	451.3
45°	329.1	404.0	608.4	413.9	339.1
47.5°	256.8	309.2	463.8	309.2	259.3
50°	214.4	241.9	329.1	244.4	214.4
52.5°	179.5	199.5	234.4	199.5	179.5
55°	149.6	167.1	174.5	167.1	152.1
57.5°	119.7	137.1	134.7	137.1	122.2
60°	94.8	107.2	109.7	107.2	94.8
62.5°	72.3	82.3	89.8	82.3	72.3
65°	64.8	67.3	72.3	67.3	64.8
67.5°	54.9	57.4	57.4	57.4	54.9
70°	44.9	47.4	47.4	47.4	47.4
72.5°	37.4	39.9	39.9	39.9	37.4
75°	29.9	32.4	29.9	32.4	29.9
77.5°	22.4	24.9	24.9	24.9	24.9
80°	17.5	17.5	17.5	17.5	17.5
82.5°	12.5	12.5	12.5	12.5	12.5
85°	7.5	7.5	7.5	7.5	7.5
87.5°	5.0	5.0	2.5	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)