

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: P237966

Luminaire Tested: **PRS630D010-S6M24-64SMDMB-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P237966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-64SMDMB-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2655.8 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.94 / 1
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

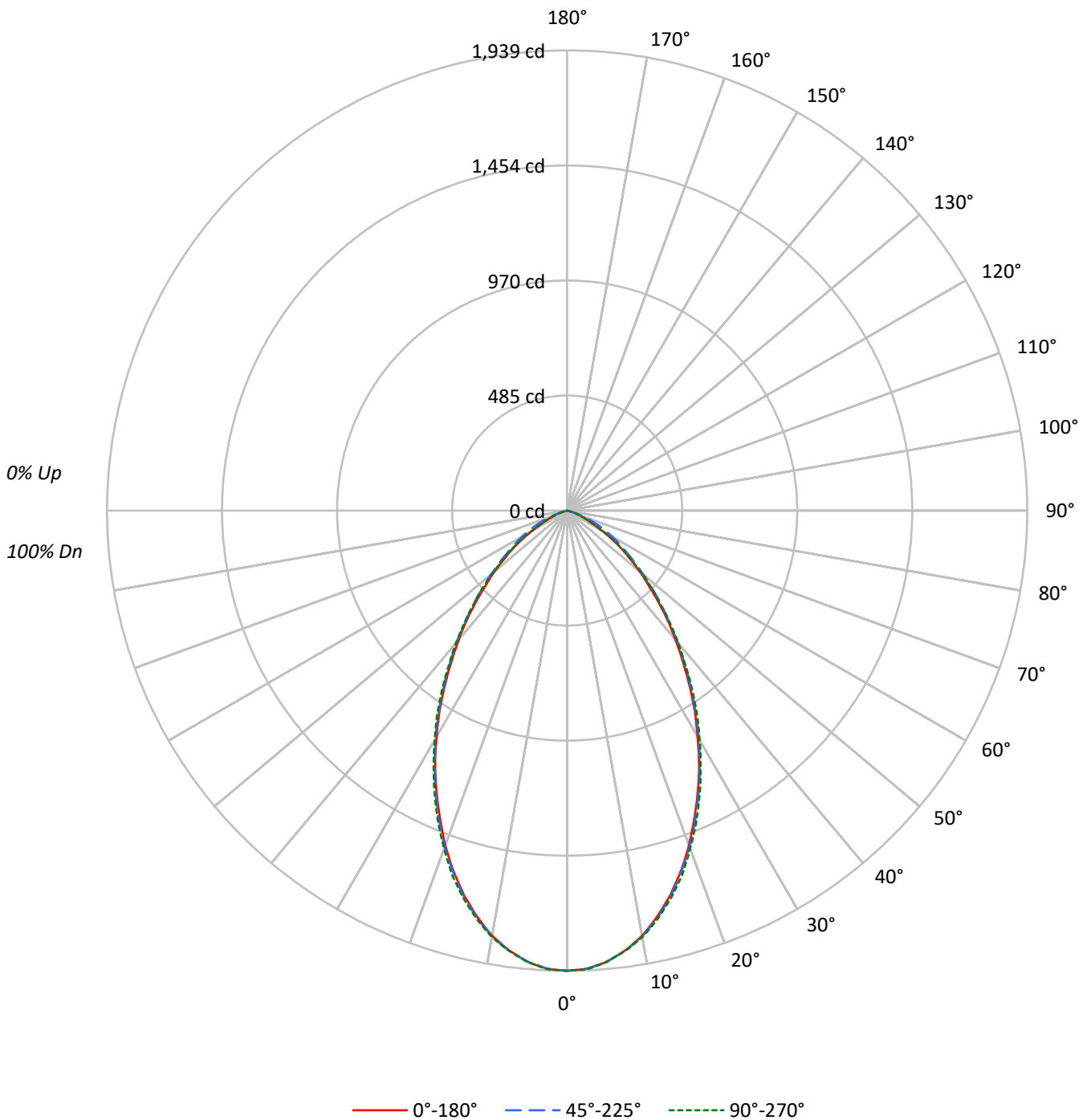
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92					90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82					80				
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74					72				
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66					64				
5	85	74	67	62	83	73	67	62	71	66	61	70	64	60	68	63	60					58				
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54					53				
7	74	63	56	51	73	62	55	51	61	55	50	60	54	50	58	53	50					48				
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46					44				
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42					40				
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39					37				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	83498	83498	83498
5°	82525	82416	82525
10°	79557	79666	79776
15°	74778	75001	75335
20°	68756	69099	69443
25°	61934	62291	62761
30°	54653	55150	55518
35°	47168	47694	48214
40°	39928	40631	40912
45°	32935	34001	33849
50°	26713	28052	27383
55°	20958	22827	21521
60°	14596	18893	15026
65°	9393	14477	9393
70°	6282	8472	6282
75°	2495	3726	2495
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.4	6.8
10°-20°	470.6	17.7
20°-30°	600.5	22.6
30°-40°	567.6	21.4
40°-50°	431.1	16.2
50°-60°	266.2	10.0
60°-70°	116.2	4.4
70°-80°	24.2	0.9
80°-90°	0.0	0.0
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°	1250.5	47.1
0°-40°	1818.1	68.5
0°-60°	2515.4	94.7
0°-90°	2655.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2655.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1939	1939	1939	1939	1939	
5°	1909	1909	1907	1909	1909	179
15°	1678	1678	1683	1688	1690	469
25°	1304	1304	1311	1316	1321	597
35°	897	905	907	915	917	561
45°	541	556	558	566	556	420
55°	279	297	304	302	287	249
65°	92	107	142	110	92	96
75°	15	22	22	22	15	19
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1939.3	1939.3	1939.3	1939.3	1939.3
2.5°	1931.9	1931.9	1931.9	1931.9	1934.4
5°	1909.4	1909.4	1906.9	1909.4	1909.4
7.5°	1869.5	1872.0	1872.0	1872.0	1872.0
10°	1819.7	1819.7	1822.2	1824.7	1824.7
12.5°	1752.4	1754.9	1757.4	1762.4	1762.4
15°	1677.6	1677.6	1682.6	1687.6	1690.1
17.5°	1592.9	1592.9	1597.8	1602.8	1610.3
20°	1500.6	1500.6	1508.1	1515.6	1515.6
22.5°	1400.9	1400.9	1410.9	1413.4	1420.9
25°	1303.7	1303.7	1311.2	1316.2	1321.1
27.5°	1204.0	1201.5	1209.0	1214.0	1218.9
30°	1099.3	1099.3	1109.3	1109.3	1116.7
32.5°	999.6	999.6	1007.1	1012.0	1019.5
35°	897.4	904.9	907.4	914.8	917.3
37.5°	800.2	812.6	812.6	822.6	817.6
40°	710.4	717.9	722.9	727.9	727.9
42.5°	625.7	635.6	635.6	643.1	640.6
45°	540.9	555.9	558.4	565.8	555.9
47.5°	463.6	481.1	483.6	488.6	483.6
50°	398.8	411.3	418.8	418.8	408.8
52.5°	334.0	349.0	356.5	356.5	344.0
55°	279.2	296.6	304.1	301.6	286.7
57.5°	221.9	241.8	259.2	249.3	229.3
60°	169.5	194.4	219.4	199.4	174.5
62.5°	122.1	147.1	179.5	147.1	127.1
65°	92.2	107.2	142.1	109.7	92.2
67.5°	67.3	77.3	104.7	79.8	67.3
70°	49.9	57.3	67.3	57.3	49.9
72.5°	32.4	39.9	39.9	39.9	32.4
75°	15.0	22.4	22.4	22.4	15.0
77.5°	0.0	5.0	10.0	5.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)