

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: P238051

Luminaire Tested: **PRS630D010-S6M24-64SNDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-64SNDH-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2986.3 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

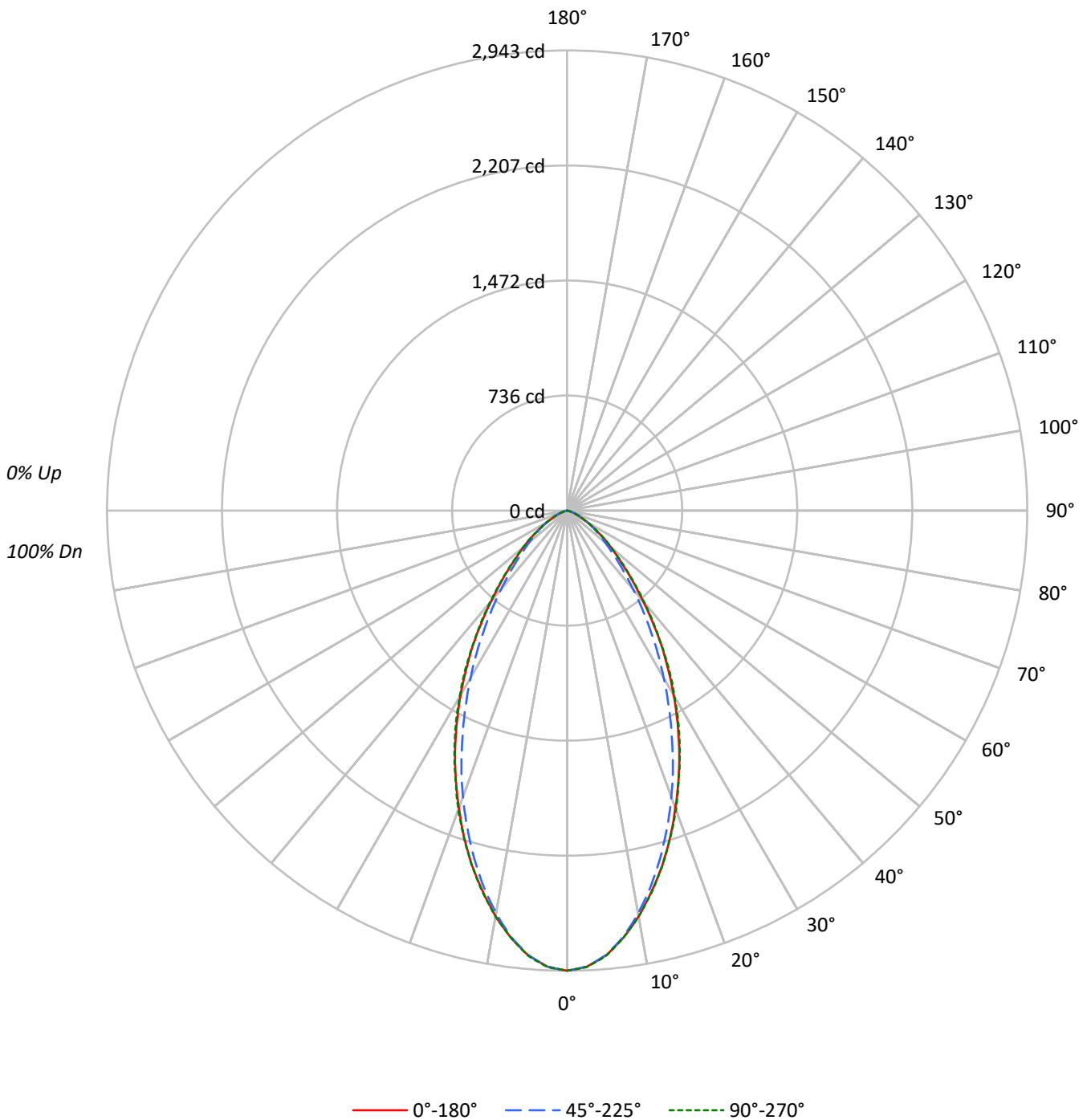
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83					83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	56	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	126704	126704	126704
5°	123428	123311	123540
10°	115171	114362	115285
15°	104728	102495	104844
20°	92669	89287	93273
25°	80548	75160	81051
30°	67778	61355	68300
35°	55163	48372	55300
40°	42390	36904	42980
45°	31949	27778	32594
50°	24375	21193	24904
55°	18211	16627	18211
60°	12719	13399	12943
65°	8599	10208	8863
70°	5980	6634	5640
75°	2628	3078	2628
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	8.9
10°-20°	647.8	21.7
20°-30°	749.4	25.1
30°-40°	613.4	20.5
40°-50°	383.7	12.8
50°-60°	211.1	7.1
60°-70°	94.2	3.2
70°-80°	21.6	0.7
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°	1662.4	55.7
0°-40°	2275.8	76.2
0°-60°	2870.6	96.1
0°-90°	2986.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2986.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2943	2943	2943	2943	2943	
5°	2856	2853	2853	2858	2858	265
15°	2350	2323	2299	2328	2352	655
25°	1696	1630	1582	1638	1706	775
35°	1050	970	920	978	1052	652
45°	525	480	456	488	535	412
55°	243	232	222	237	243	220
65°	84	92	100	92	87	88
75°	16	18	18	18	16	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°	2942.8	2942.8	2942.8	2942.8	2942.8
2.5°	2919.0	2921.7	2919.0	2921.7	2921.7
5°	2855.8	2853.1	2853.1	2858.4	2858.4
7.5°	2755.6	2752.9	2750.3	2755.6	2755.6
10°	2634.3	2629.0	2615.8	2631.6	2636.9
12.5°	2494.5	2484.0	2465.5	2484.0	2499.8
15°	2349.5	2323.1	2299.4	2328.4	2352.1
17.5°	2191.3	2157.0	2125.3	2154.3	2193.9
20°	2022.5	1982.9	1948.7	1985.6	2035.7
22.5°	1861.6	1806.3	1766.7	1811.5	1864.3
25°	1695.5	1629.6	1582.1	1637.5	1706.1
27.5°	1526.8	1455.6	1405.5	1466.1	1542.6
30°	1363.3	1286.8	1234.1	1300.0	1373.8
32.5°	1199.8	1128.6	1075.9	1139.1	1218.2
35°	1049.5	970.4	920.3	978.3	1052.1
37.5°	893.9	822.7	783.2	833.3	907.1
40°	754.2	690.9	656.6	701.4	764.7
42.5°	632.9	577.5	548.5	582.8	646.0
45°	524.7	479.9	456.2	487.8	535.3
47.5°	435.1	400.8	377.1	406.1	443.0
50°	363.9	332.2	316.4	337.5	371.8
52.5°	300.6	279.5	261.1	282.1	308.5
55°	242.6	232.0	221.5	237.3	242.6
57.5°	189.9	187.2	184.6	189.9	192.5
60°	147.7	150.3	155.6	150.3	150.3
62.5°	113.4	118.7	129.2	118.7	116.0
65°	84.4	92.3	100.2	92.3	87.0
67.5°	63.3	68.6	73.8	68.6	63.3
70°	47.5	50.1	52.7	50.1	44.8
72.5°	29.0	34.3	34.3	34.3	29.0
75°	15.8	18.5	18.5	18.5	15.8
77.5°	2.6	7.9	7.9	7.9	2.6
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)