

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: P238151

Luminaire Tested: **PRS630D010-S6M24-61SMDMB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-61SMDMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

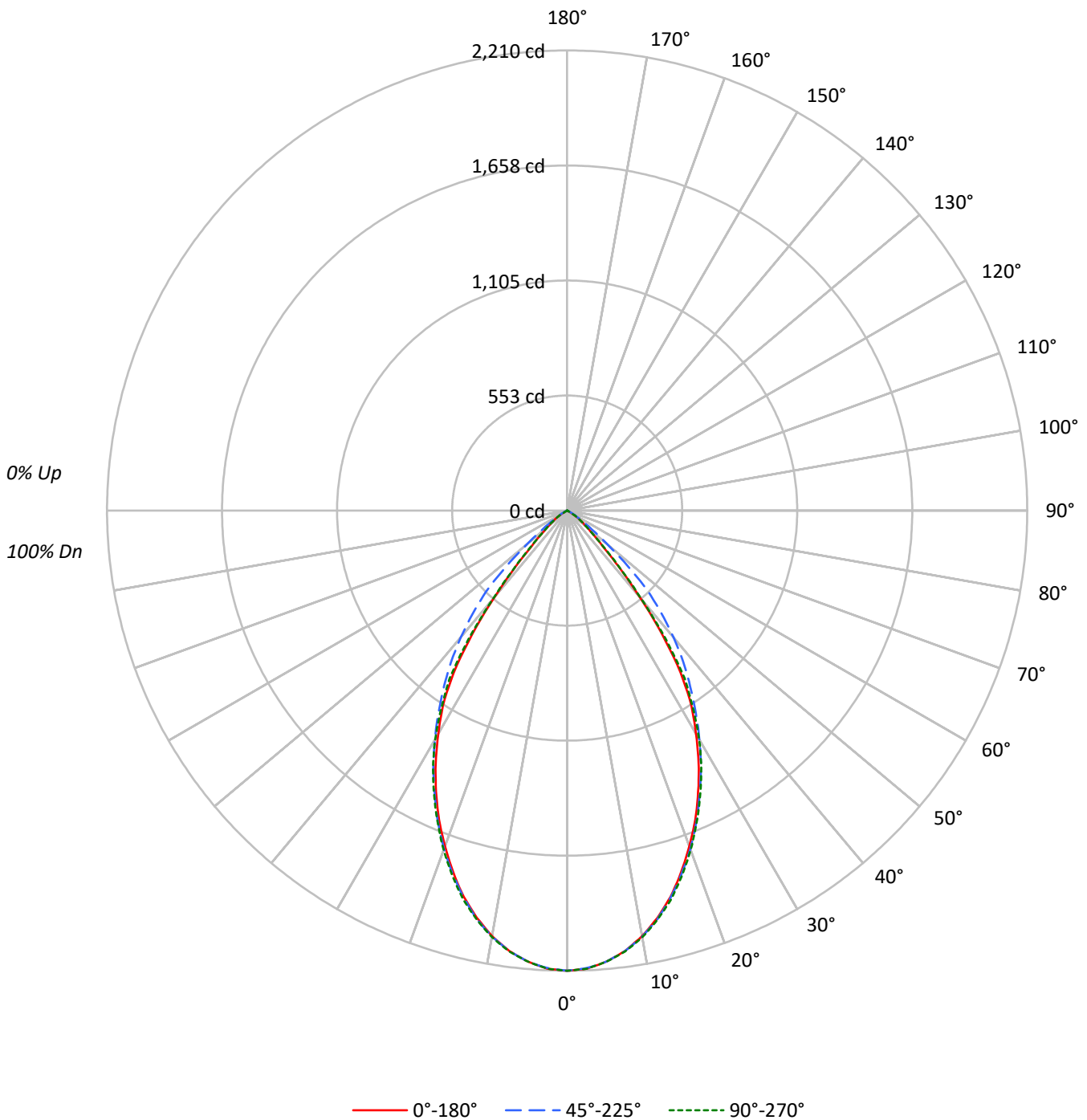
Lumens per Lamp: N/A
Luminaire Lumens: 2421.2 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.95 / 1
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93					93			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	88	84	99	92	88	84	90	86	82	87	84	81	85	82	80	78					78			
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	80	76	73	72					72			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	70	67	66					66			
6	85	75	68	64	83	74	68	63	73	67	63	71	66	63	70	65	62	61					61			
7	80	70	63	59	78	69	63	59	68	62	58	67	62	58	65	61	58	56					56			
8	76	65	59	54	74	65	58	54	63	58	54	62	57	54	61	57	53	52					52			
9	72	61	55	50	70	61	54	50	60	54	50	59	54	50	58	53	50	48					48			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	54	50	46	45					45			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	95157	95157	95157
5°	93969	93969	93969
10°	90706	90828	90950
15°	85583	85708	86078
20°	78607	79239	79491
25°	70742	71526	71792
30°	61534	63180	63040
35°	49949	54164	51694
40°	30587	44565	31211
45°	14632	33477	15137
50°	8145	16652	8145
55°	4767	6846	4977
60°	1188	3091	1429
65°	0	846	285
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.5	8.4
10°-20°	537.9	22.2
20°-30°	688.1	28.4
30°-40°	613.8	25.4
40°-50°	293.5	12.1
50°-60°	76.9	3.2
60°-70°	6.5	0.3
70°-80°	0.0	0.0
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°	1430.5	59.1
0°-40°	2044.4	84.4
0°-60°	2414.7	99.7
0°-90°	2421.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2421.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2210	2210	2210	2210	2210	
5°	2174	2174	2174	2177	2174	204
15°	1920	1920	1923	1928	1931	536
25°	1489	1495	1506	1511	1511	681
35°	950	997	1030	1011	984	573
45°	240	332	550	334	249	210
55°	64	83	91	83	66	58
65°	0	3	8	0	3	2
75°	0	0	0	0	0	0
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°	2210.1	2210.1	2210.1	2210.1	2210.1
2.5°	2201.8	2201.8	2199.0	2201.8	2201.8
5°	2174.2	2174.2	2174.2	2176.9	2174.2
7.5°	2132.7	2132.7	2132.7	2135.5	2135.5
10°	2074.7	2074.7	2077.5	2080.3	2080.3
12.5°	2002.9	2002.9	2008.4	2011.2	2011.2
15°	1920.0	1920.0	1922.8	1928.3	1931.1
17.5°	1820.6	1823.3	1828.9	1834.4	1837.1
20°	1715.6	1718.4	1729.4	1734.9	1734.9
22.5°	1607.8	1610.6	1621.7	1627.2	1624.4
25°	1489.1	1494.6	1505.6	1511.2	1511.2
27.5°	1367.5	1375.8	1392.4	1389.6	1395.1
30°	1237.7	1251.5	1270.8	1270.8	1268.0
32.5°	1110.6	1127.2	1149.3	1138.2	1124.4
35°	950.3	997.3	1030.5	1011.1	983.5
37.5°	748.7	853.7	914.4	873.0	779.1
40°	544.2	668.6	792.9	685.1	555.3
42.5°	367.4	477.9	671.3	491.7	381.2
45°	240.3	331.5	549.8	334.3	248.6
47.5°	165.8	221.0	397.8	223.8	168.5
50°	121.6	154.7	248.6	154.7	121.6
52.5°	91.2	113.3	151.9	113.3	91.2
55°	63.5	82.9	91.2	82.9	66.3
57.5°	38.7	55.3	55.3	55.3	38.7
60°	13.8	30.4	35.9	30.4	16.6
62.5°	0.0	8.3	19.3	8.3	0.0
65°	0.0	2.8	8.3	0.0	2.8
67.5°	0.0	0.0	2.8	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	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)