

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: P238156

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238156
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2308.9 lumens
Efficiency: N/A
Efficacy: 90.5 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

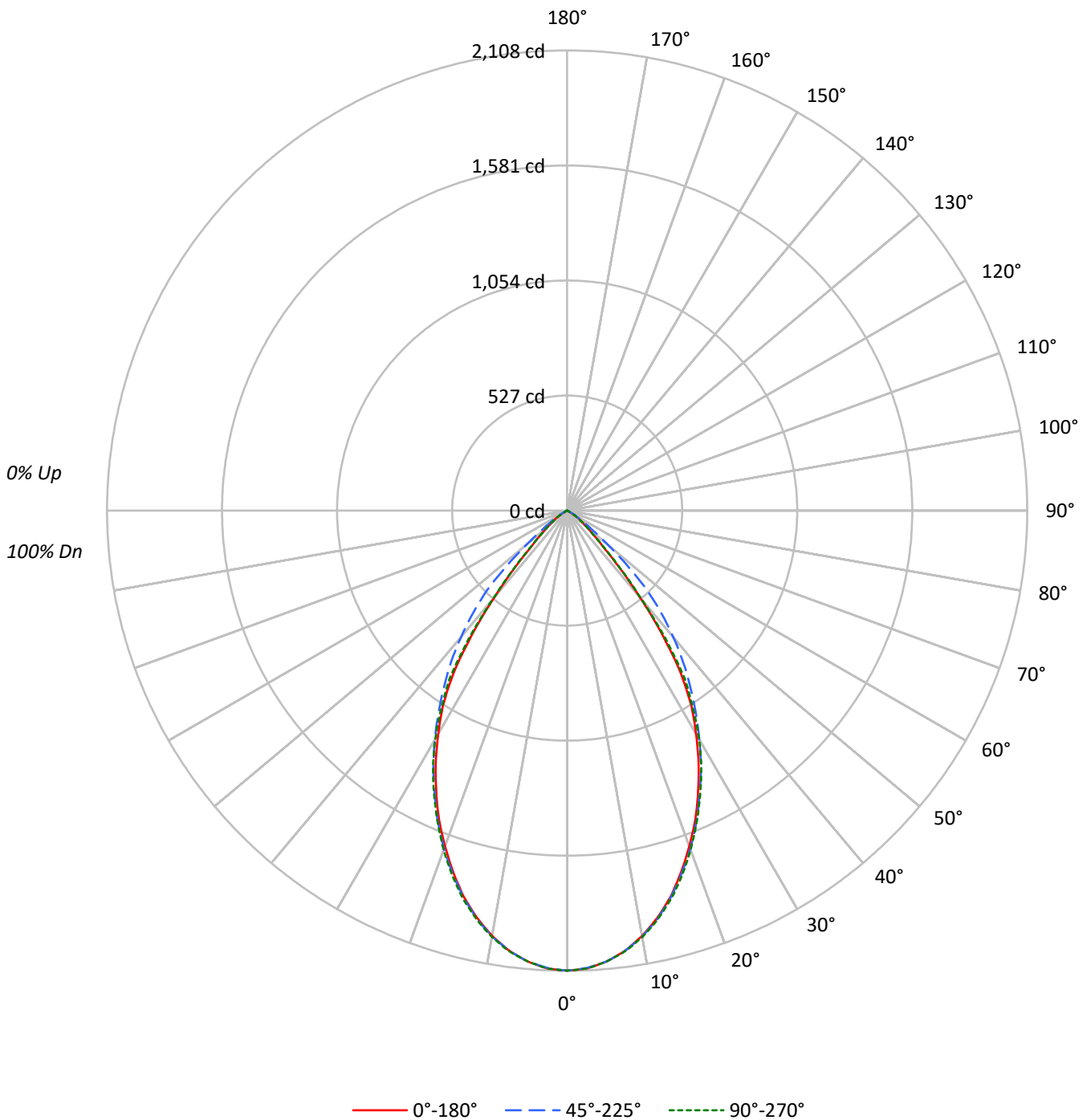
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	96	94	93		
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	91	89	87	85		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	81	80	78	78		
3	101	94	88	84	99	92	88	84	90	86	82	87	84	81	85	82	80	78	78	78	74	73	72	72		
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	80	76	73	72	72	72	68	67	66	66		
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	70	67	66	66	66	63	62	61	61		
6	85	75	68	64	83	74	68	63	73	67	63	71	66	63	70	65	62	61	61	61	58	57	56	56		
7	80	70	63	59	78	69	63	59	68	62	58	67	62	58	65	61	58	56	56	56	53	52	51	51		
8	76	65	59	54	74	65	58	54	63	58	54	62	57	54	61	57	53	52	52	52	49	48	47	47		
9	72	61	55	50	70	61	54	50	60	54	50	59	54	50	58	53	50	48	48	48	45	44	43	43		
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	54	50	46	45	45	45	42	41	40	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	90748	90748	90748
5°	89613	89613	89613
10°	86504	86618	86731
15°	81616	81736	82088
20°	74964	75564	75807
25°	67459	68210	68462
30°	58680	60251	60122
35°	47636	51652	49297
40°	29170	42497	29761
45°	13956	31925	14437
50°	7763	15882	7763
55°	4549	6523	4744
60°	1137	2945	1361
65°	0	805	265
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°	195.0	8.4
10°-20°	513.0	22.2
20°-30°	656.2	28.4
30°-40°	585.4	25.4
40°-50°	279.9	12.1
50°-60°	73.3	3.2
60°-70°	6.2	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°	1364.2	59.1
0°-40°	1949.6	84.4
0°-60°	2302.7	99.7
0°-90°	2308.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2308.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2108	2108	2108	2108	2108	
5°	2073	2073	2073	2076	2073	195
15°	1831	1831	1834	1839	1842	511
25°	1420	1425	1436	1441	1441	649
35°	906	951	983	964	938	546
45°	229	316	524	319	237	200
55°	61	79	87	79	63	55
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°	2107.7	2107.7	2107.7	2107.7	2107.7
2.5°	2099.8	2099.8	2097.1	2099.8	2099.8
5°	2073.4	2073.4	2073.4	2076.0	2073.4
7.5°	2033.9	2033.9	2033.9	2036.5	2036.5
10°	1978.6	1978.6	1981.2	1983.8	1983.8
12.5°	1910.1	1910.1	1915.3	1918.0	1918.0
15°	1831.0	1831.0	1833.7	1838.9	1841.6
17.5°	1736.2	1738.8	1744.1	1749.4	1752.0
20°	1636.1	1638.7	1649.2	1654.5	1654.5
22.5°	1533.3	1536.0	1546.5	1551.8	1549.1
25°	1420.0	1425.3	1435.8	1441.1	1441.1
27.5°	1304.1	1312.0	1327.8	1325.2	1330.5
30°	1180.3	1193.5	1211.9	1211.9	1209.3
32.5°	1059.1	1074.9	1096.0	1085.4	1072.3
35°	906.3	951.1	982.7	964.3	937.9
37.5°	714.0	814.1	872.0	832.5	742.9
40°	519.0	637.6	756.1	653.4	529.5
42.5°	350.4	455.8	640.2	469.0	363.6
45°	229.2	316.1	524.3	318.8	237.1
47.5°	158.1	210.8	379.4	213.4	160.7
50°	115.9	147.5	237.1	147.5	115.9
52.5°	86.9	108.0	144.9	108.0	86.9
55°	60.6	79.0	86.9	79.0	63.2
57.5°	36.9	52.7	52.7	52.7	36.9
60°	13.2	29.0	34.2	29.0	15.8
62.5°	0.0	7.9	18.4	7.9	0.0
65°	0.0	2.6	7.9	0.0	2.6
67.5°	0.0	0.0	2.6	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)