

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: P238021

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-64SMDMW-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2978.4 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

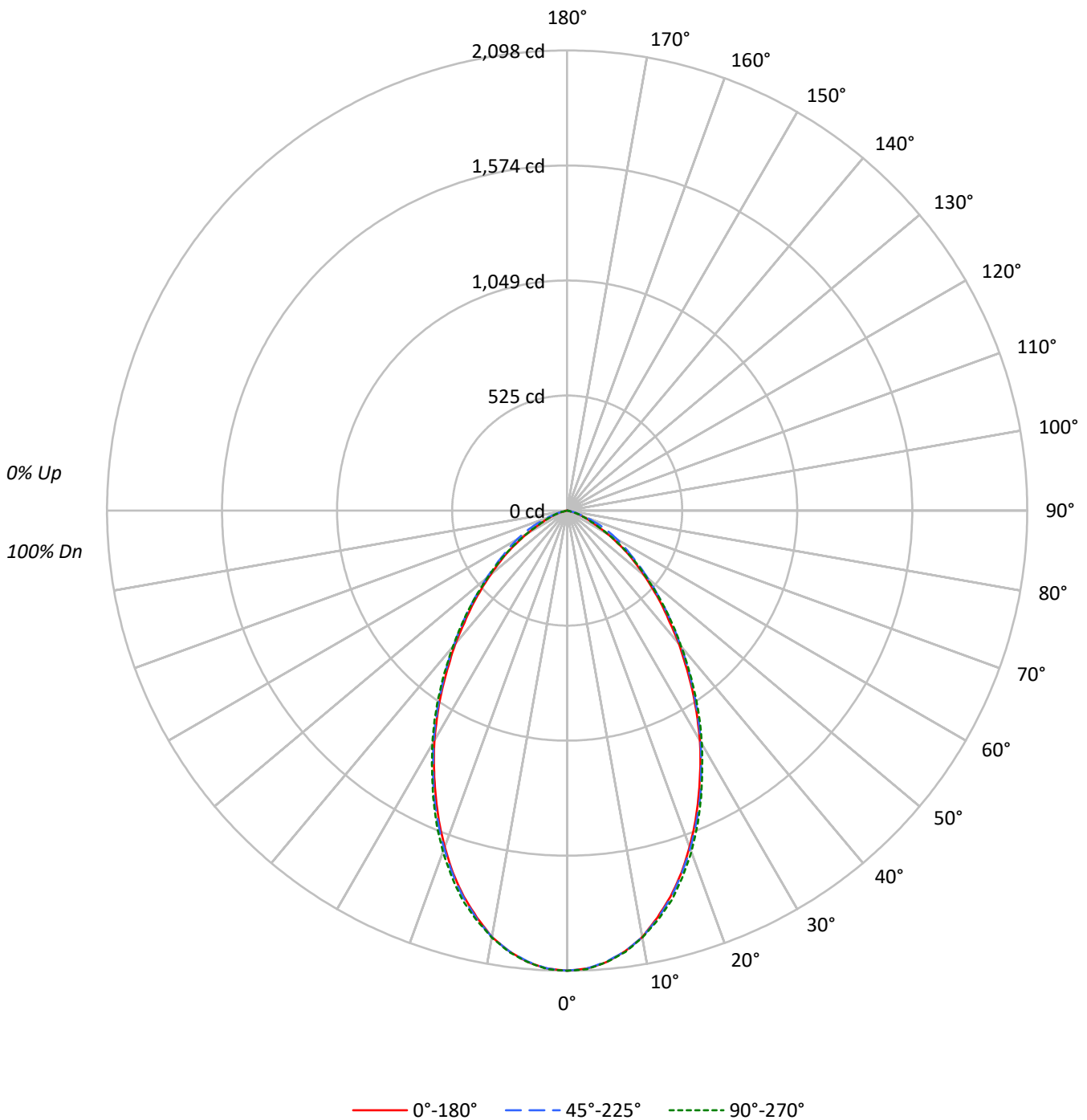
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	60	71	65	60	69	64	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	90326	90326	90326
5°	89306	89189	89306
10°	86303	86303	86421
15°	81179	81411	81999
20°	74749	75111	75835
25°	67488	68239	68614
30°	60142	60535	61062
35°	52225	52777	53334
40°	44588	45329	45476
45°	37228	38355	38355
50°	30718	32132	31422
55°	24726	26708	25320
60°	18152	22699	18609
65°	12348	17992	12623
70°	8963	11607	8963
75°	5257	6138	4824
80°	1314	1959	1314
85°	1284	1284	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	6.5
10°-20°	511.3	17.2
20°-30°	656.5	22.0
30°-40°	627.3	21.1
40°-50°	485.8	16.3
50°-60°	312.5	10.5
60°-70°	148.1	5.0
70°-80°	39.6	1.3
80°-90°	3.0	0.1
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°	1362.1	45.7
0°-40°	1989.4	66.8
0°-60°	2787.7	93.6
0°-90°	2978.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2978.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2098	2098	2098	2098	2098	
5°	2066	2066	2064	2066	2066	194
15°	1821	1824	1826	1834	1840	509
25°	1421	1423	1436	1439	1444	652
35°	994	996	1004	1009	1015	620
45°	611	625	630	635	630	473
55°	329	348	356	353	337	294
65°	121	140	177	140	124	127
75°	32	37	37	37	29	34
85°	3	3	3	3	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2097.9	2097.9	2097.9	2097.9	2097.9
2.5°	2090.0	2090.0	2090.0	2090.0	2092.6
5°	2066.3	2066.3	2063.6	2066.3	2066.3
7.5°	2026.7	2026.7	2026.7	2029.4	2029.4
10°	1974.0	1974.0	1974.0	1976.7	1976.7
12.5°	1900.2	1902.9	1905.5	1910.8	1910.8
15°	1821.2	1823.8	1826.4	1834.3	1839.6
17.5°	1731.6	1734.2	1736.8	1747.4	1750.0
20°	1631.4	1631.4	1639.3	1652.5	1655.1
22.5°	1528.6	1531.3	1539.2	1544.4	1552.3
25°	1420.6	1423.2	1436.4	1439.0	1444.3
27.5°	1315.1	1315.1	1323.0	1328.3	1333.6
30°	1209.7	1209.7	1217.6	1220.3	1228.2
32.5°	1099.0	1101.7	1109.6	1114.8	1122.7
35°	993.6	996.2	1004.1	1009.4	1014.7
37.5°	885.5	898.7	904.0	909.3	909.3
40°	793.3	801.2	806.5	814.4	809.1
42.5°	693.1	711.6	714.2	722.1	716.9
45°	611.4	624.6	629.9	635.2	629.9
47.5°	529.7	545.6	550.8	553.5	545.6
50°	458.6	471.8	479.7	479.7	469.1
52.5°	390.1	405.9	413.8	413.8	403.2
55°	329.4	347.9	355.8	353.2	337.3
57.5°	266.2	289.9	308.4	295.2	274.1
60°	210.8	237.2	263.6	239.8	216.1
62.5°	158.1	184.5	218.8	187.1	160.8
65°	121.2	139.7	176.6	139.7	123.9
67.5°	94.9	105.4	131.8	105.4	94.9
70°	71.2	79.1	92.2	79.1	71.2
72.5°	50.1	58.0	60.6	58.0	50.1
75°	31.6	36.9	36.9	36.9	29.0
77.5°	10.5	15.8	21.1	15.8	10.5
80°	5.3	5.3	7.9	5.3	5.3
82.5°	5.3	5.3	5.3	5.3	5.3
85°	2.6	2.6	2.6	2.6	2.6
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)