

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: P238106

Luminaire Tested: **PRS630D010-S6M24-64SMDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-11)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-64SMDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3090.0 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

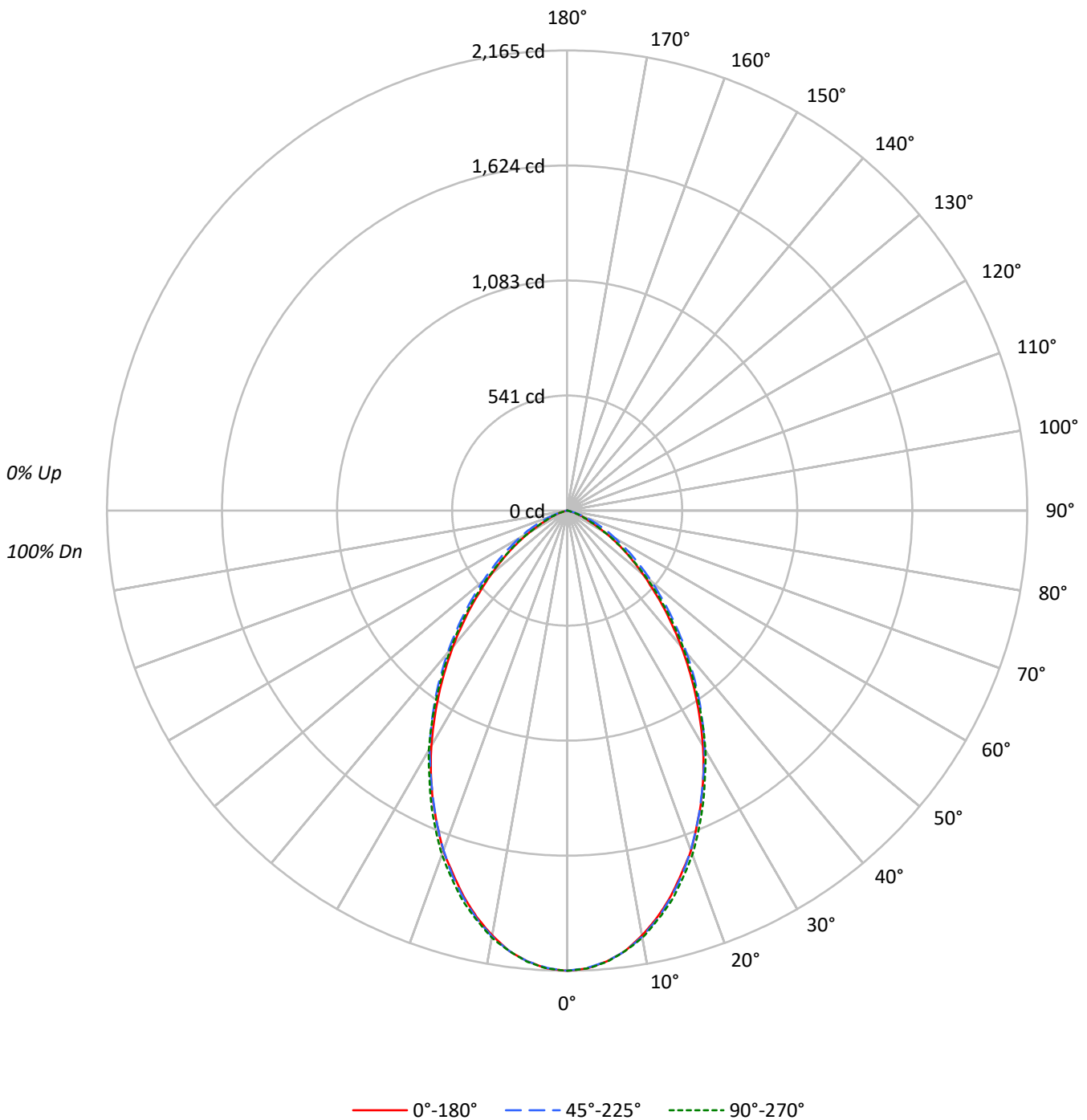
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	73	68	77	72	67	75	70	66	73	69	66	64					64			
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	63	55	50	72	62	55	50	60	54	50	59	53	49	58	53	49	47					47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	93216	93216	93216
5°	92020	92020	92137
10°	88729	88974	89215
15°	83809	84054	84674
20°	78043	77915	78928
25°	71065	70932	71982
30°	63508	64333	64746
35°	55226	56824	56246
40°	46931	49106	48022
45°	38890	41588	39901
50°	31113	34637	32038
55°	24494	28435	24907
60°	17377	22380	17618
65°	11268	16902	11553
70°	7654	10449	7654
75°	3676	4608	3676
80°	0	694	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	6.5
10°-20°	528.4	17.1
20°-30°	687.8	22.3
30°-40°	667.2	21.6
40°-50°	515.6	16.7
50°-60°	318.9	10.3
60°-70°	140.6	4.6
70°-80°	30.9	1.0
80°-90°	0.1	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°	1416.7	45.8
0°-40°	2083.8	67.4
0°-60°	2918.4	94.4
0°-90°	3090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2165	2165	2165	2165	2165	
5°	2129	2132	2129	2132	2132	200
15°	1880	1883	1886	1897	1900	526
25°	1496	1493	1493	1507	1515	685
35°	1051	1062	1081	1073	1070	655
45°	639	664	683	675	655	493
55°	326	351	379	357	332	293
65°	111	133	166	133	113	117
75°	22	28	28	28	22	25
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°	2165.0	2165.0	2165.0	2165.0	2165.0
2.5°	2156.7	2156.7	2154.0	2156.7	2156.7
5°	2129.1	2131.8	2129.1	2131.8	2131.8
7.5°	2090.4	2090.4	2090.4	2093.1	2090.4
10°	2029.5	2032.3	2035.1	2037.8	2040.6
12.5°	1960.4	1963.2	1965.9	1971.5	1971.5
15°	1880.2	1883.0	1885.7	1896.8	1899.6
17.5°	1789.0	1791.7	1797.3	1808.3	1811.1
20°	1703.3	1695.0	1700.5	1708.8	1722.6
22.5°	1598.2	1598.2	1598.2	1609.2	1620.3
25°	1495.9	1493.1	1493.1	1506.9	1515.2
27.5°	1388.0	1388.0	1390.8	1399.1	1404.6
30°	1277.4	1277.4	1294.0	1291.3	1302.3
32.5°	1161.3	1169.6	1186.2	1180.7	1183.4
35°	1050.7	1061.8	1081.1	1072.8	1070.1
37.5°	940.1	953.9	976.1	967.8	959.5
40°	835.0	854.4	873.7	862.7	854.4
42.5°	732.7	754.9	777.0	765.9	754.9
45°	638.7	663.6	683.0	674.7	655.3
47.5°	544.7	575.1	594.5	586.2	566.8
50°	464.5	494.9	517.1	503.2	478.3
52.5°	392.6	420.3	442.4	425.8	400.9
55°	326.3	351.2	378.8	356.7	331.8
57.5°	262.7	290.3	315.2	295.9	268.2
60°	201.8	232.3	259.9	237.8	204.6
62.5°	149.3	179.7	212.9	182.5	152.1
65°	110.6	132.7	165.9	132.7	113.4
67.5°	83.0	96.8	124.4	99.5	83.0
70°	60.8	71.9	83.0	71.9	60.8
72.5°	41.5	49.8	49.8	49.8	41.5
75°	22.1	27.7	27.7	27.7	22.1
77.5°	2.8	8.3	11.1	8.3	2.8
80°	0.0	0.0	2.8	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)