

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: P238011

Luminaire Tested: **PRS630D010-S6M24-64SMDMW-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238011  
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-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2817.9 lumens  
Efficiency: N/A  
Efficacy: 110.5 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

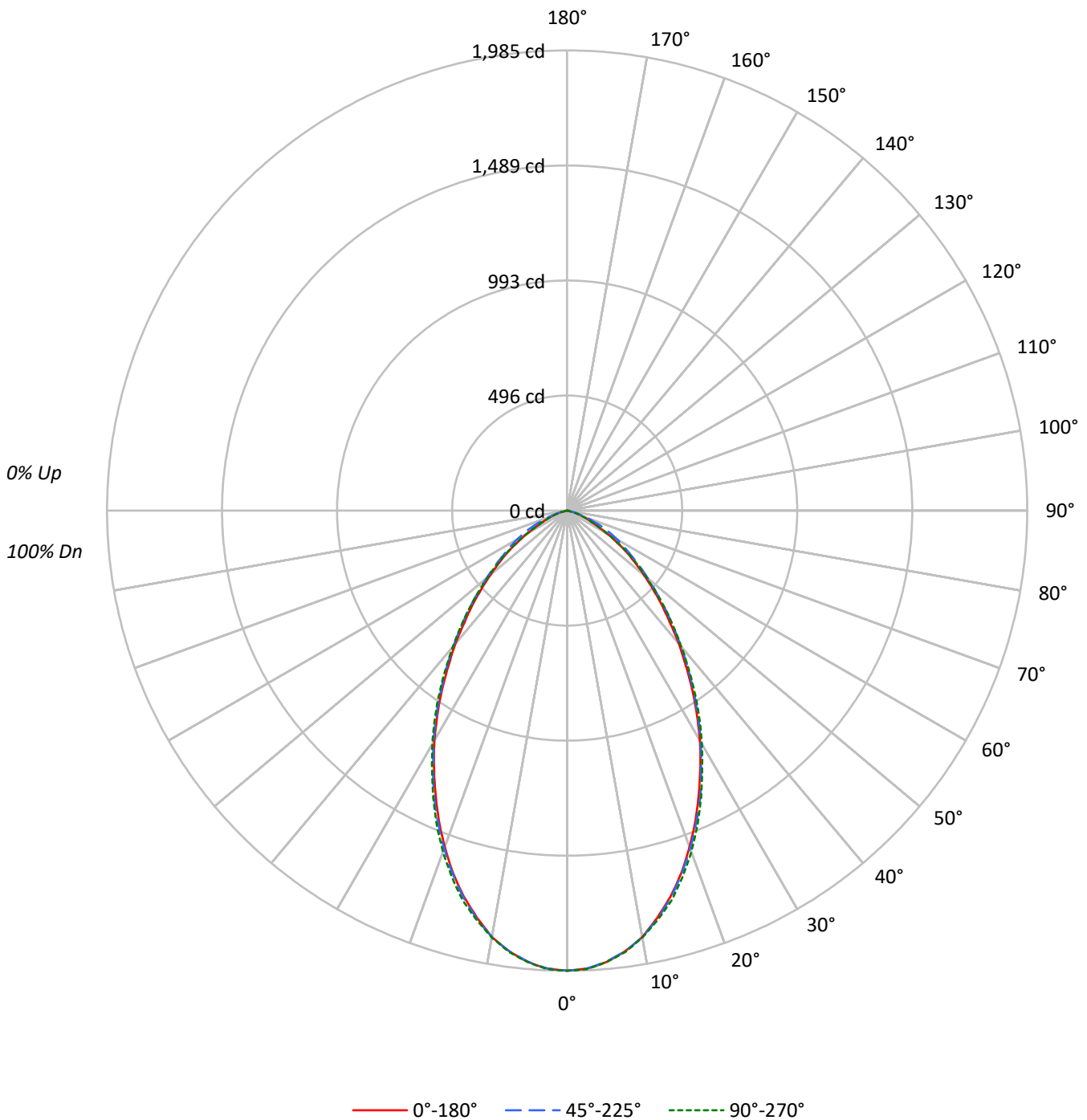
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	85461	85461	85461
5°	84491	84383	84491
10°	81656	81656	81765
15°	76802	77025	77582
20°	70721	71065	71748
25°	63849	64562	64918
30°	56900	57273	57770
35°	49413	49933	50459
40°	42188	42885	43025
45°	35225	36290	36290
50°	29064	30397	29734
55°	23398	25267	23961
60°	17179	21476	17610
65°	11685	17024	11940
70°	8472	10990	8472
75°	4974	5806	4558
80°	1240	1860	1240
85°	1235	1235	1235



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.9	6.5
10°-20°	483.8	17.2
20°-30°	621.1	22.0
30°-40°	593.5	21.1
40°-50°	459.7	16.3
50°-60°	295.6	10.5
60°-70°	140.1	5.0
70°-80°	37.5	1.3
80°-90°	2.8	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°	1288.7	45.7
0°-40°	1882.2	66.8
0°-60°	2637.5	93.6
0°-90°	2817.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2817.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1955	1955	1952	1955	1955	184
15°	1723	1726	1728	1736	1740	482
25°	1344	1346	1359	1362	1366	617
35°	940	943	950	955	960	586
45°	578	591	596	601	596	447
55°	312	329	337	334	319	278
65°	115	132	167	132	117	120
75°	30	35	35	35	27	32
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1984.9	1984.9	1984.9	1984.9	1984.9
2.5°	1977.4	1977.4	1977.4	1977.4	1979.9
5°	1954.9	1954.9	1952.4	1954.9	1954.9
7.5°	1917.5	1917.5	1917.5	1920.0	1920.0
10°	1867.7	1867.7	1867.7	1870.2	1870.2
12.5°	1797.8	1800.3	1802.8	1807.8	1807.8
15°	1723.0	1725.5	1728.0	1735.5	1740.5
17.5°	1638.3	1640.7	1643.2	1653.2	1655.7
20°	1543.5	1543.5	1551.0	1563.4	1565.9
22.5°	1446.3	1448.7	1456.2	1461.2	1468.7
25°	1344.0	1346.5	1359.0	1361.5	1366.5
27.5°	1244.3	1244.3	1251.8	1256.7	1261.7
30°	1144.5	1144.5	1152.0	1154.5	1162.0
32.5°	1039.8	1042.3	1049.8	1054.8	1062.2
35°	940.1	942.6	950.0	955.0	960.0
37.5°	837.8	850.3	855.3	860.3	860.3
40°	750.6	758.0	763.0	770.5	765.5
42.5°	655.8	673.3	675.7	683.2	678.2
45°	578.5	591.0	596.0	600.9	596.0
47.5°	501.2	516.2	521.1	523.6	516.2
50°	433.9	446.3	453.8	453.8	443.9
52.5°	369.0	384.0	391.5	391.5	381.5
55°	311.7	329.1	336.6	334.1	319.2
57.5°	251.8	274.3	291.7	279.3	259.3
60°	199.5	224.4	249.4	226.9	204.5
62.5°	149.6	174.5	207.0	177.0	152.1
65°	114.7	132.2	167.1	132.2	117.2
67.5°	89.8	99.7	124.7	99.7	89.8
70°	67.3	74.8	87.3	74.8	67.3
72.5°	47.4	54.9	57.4	54.9	47.4
75°	29.9	34.9	34.9	34.9	27.4
77.5°	10.0	15.0	19.9	15.0	10.0
80°	5.0	5.0	7.5	5.0	5.0
82.5°	5.0	5.0	5.0	5.0	5.0
85°	2.5	2.5	2.5	2.5	2.5
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)