

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: P237976

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237976  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-2)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-64SMDMB-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW 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: 2807.1 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.94 / 1  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

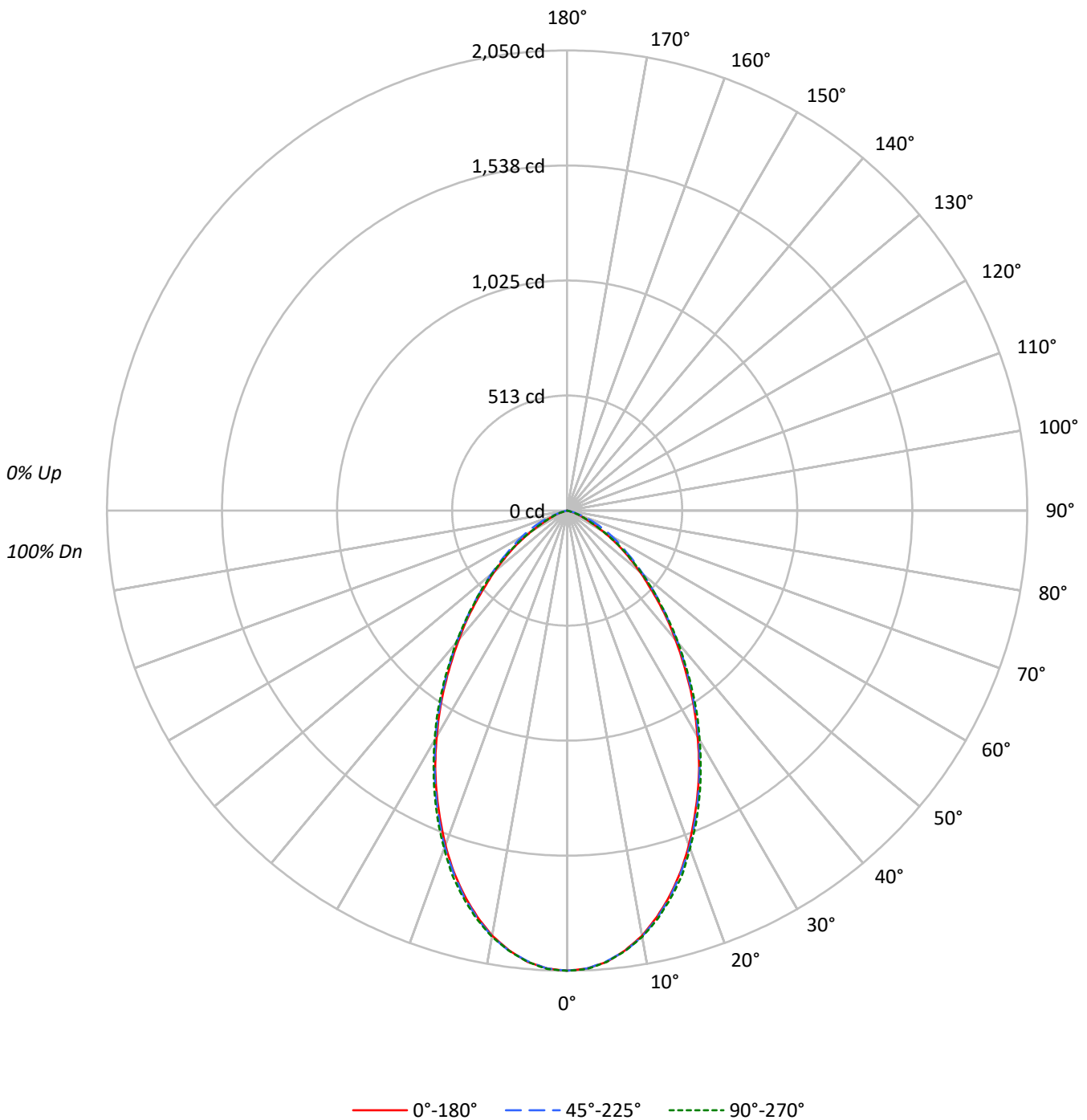
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92					90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82					80				
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74					72				
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66					64				
5	85	74	67	62	83	73	67	62	71	66	61	70	64	60	68	63	60					58				
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54					53				
7	74	63	56	51	73	62	55	51	61	55	50	60	54	50	58	53	50					48				
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46					44				
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42					40				
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39					37				

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

	0°	45°	90°
0°	88255	88255	88255
5°	87227	87110	87227
10°	84086	84204	84318
15°	79035	79271	79623
20°	72673	73035	73397
25°	65459	65835	66338
30°	57765	58288	58680
35°	49854	50406	50963
40°	42204	42946	43239
45°	34811	35937	35773
50°	28240	29647	28943
55°	22152	24126	22745
60°	15431	19969	15879
65°	9933	15302	9933
70°	6634	8951	6634
75°	2628	3943	2628
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.7	6.8
10°-20°	497.4	17.7
20°-30°	634.7	22.6
30°-40°	599.9	21.4
40°-50°	455.6	16.2
50°-60°	281.4	10.0
60°-70°	122.8	4.4
70°-80°	25.6	0.9
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°	1321.7	47.1
0°-40°	1921.6	68.5
0°-60°	2658.6	94.7
0°-90°	2807.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2807.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2050	2050	2050	2050	2050	
5°	2018	2018	2016	2018	2018	190
15°	1773	1773	1778	1784	1786	496
25°	1378	1378	1386	1391	1396	631
35°	948	956	959	967	970	593
45°	572	588	590	598	588	444
55°	295	314	321	319	303	263
65°	98	113	150	116	98	102
75°	16	24	24	24	16	20
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°	2049.8	2049.8	2049.8	2049.8	2049.8
2.5°	2041.9	2041.9	2041.9	2041.9	2044.5
5°	2018.2	2018.2	2015.5	2018.2	2018.2
7.5°	1976.0	1978.7	1978.7	1978.7	1978.7
10°	1923.3	1923.3	1926.0	1928.6	1928.6
12.5°	1852.2	1854.8	1857.5	1862.7	1862.7
15°	1773.1	1773.1	1778.4	1783.7	1786.3
17.5°	1683.6	1683.6	1688.8	1694.1	1702.0
20°	1586.1	1586.1	1594.0	1601.9	1601.9
22.5°	1480.7	1480.7	1491.2	1493.9	1501.8
25°	1377.9	1377.9	1385.8	1391.1	1396.4
27.5°	1272.6	1269.9	1277.8	1283.1	1288.4
30°	1161.9	1161.9	1172.4	1172.4	1180.3
32.5°	1056.5	1056.5	1064.4	1069.7	1077.6
35°	948.5	956.4	959.0	966.9	969.6
37.5°	845.7	858.9	858.9	869.4	864.2
40°	750.9	758.8	764.1	769.3	769.3
42.5°	661.3	671.8	671.8	679.8	677.1
45°	571.7	587.5	590.2	598.1	587.5
47.5°	490.1	508.5	511.1	516.4	511.1
50°	421.6	434.7	442.6	442.6	432.1
52.5°	353.0	368.9	376.8	376.8	363.6
55°	295.1	313.5	321.4	318.8	303.0
57.5°	234.5	255.6	274.0	263.5	242.4
60°	179.2	205.5	231.9	210.8	184.4
62.5°	129.1	155.4	189.7	155.4	134.4
65°	97.5	113.3	150.2	115.9	97.5
67.5°	71.1	81.7	110.7	84.3	71.1
70°	52.7	60.6	71.1	60.6	52.7
72.5°	34.3	42.2	42.2	42.2	34.3
75°	15.8	23.7	23.7	23.7	15.8
77.5°	0.0	5.3	10.5	5.3	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)