

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: P237971

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237971  
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  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2943.5 lumens  
Efficiency: N/A  
Efficacy: 115.4 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

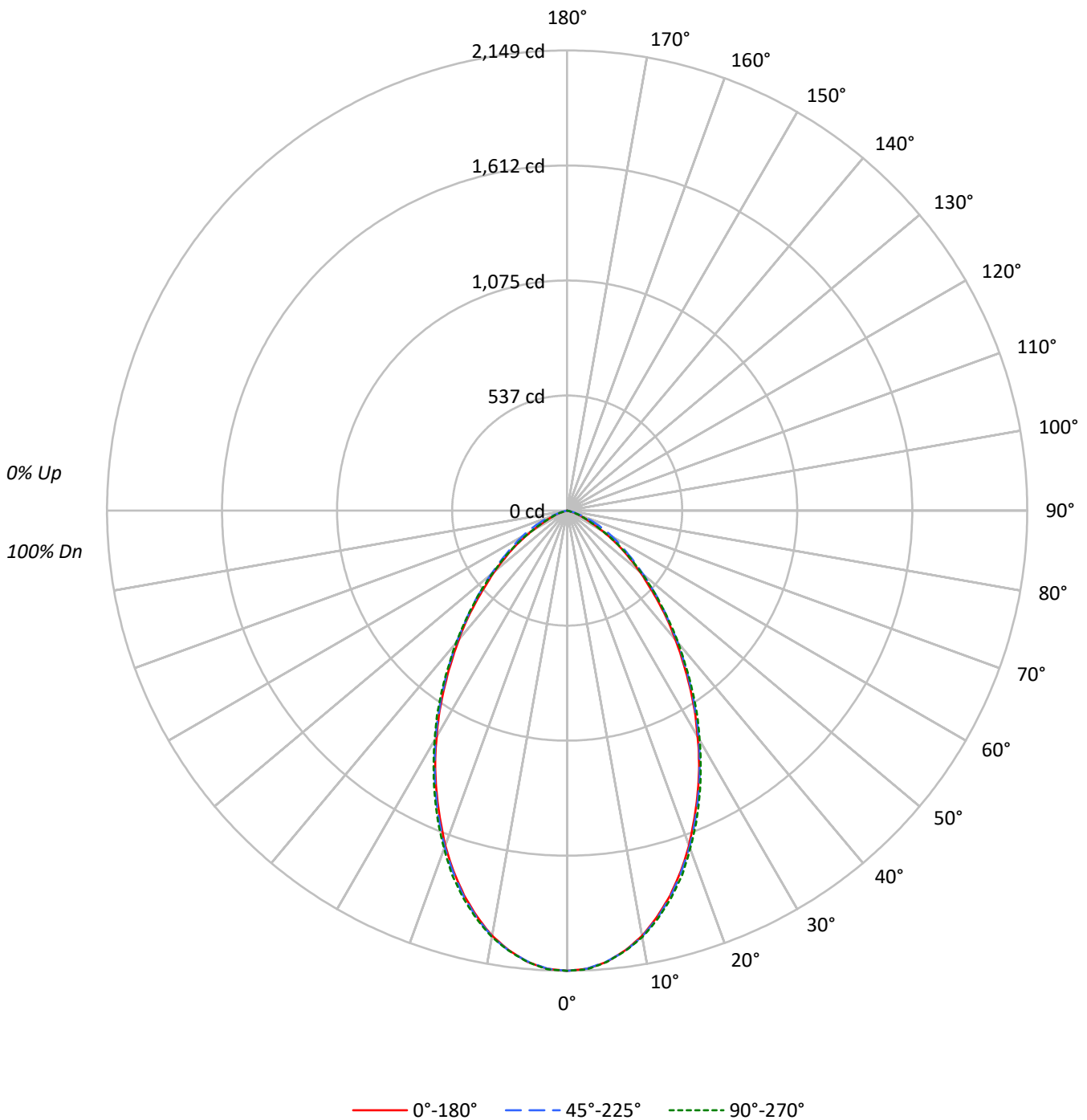
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	92544	92544	92544
5°	91467	91346	91467
10°	88174	88297	88415
15°	82877	83127	83492
20°	76206	76586	76967
25°	68642	69037	69564
30°	60574	61121	61534
35°	52277	52856	53439
40°	44256	45032	45341
45°	36503	37685	37514
50°	29606	31087	30350
55°	23225	25304	23848
60°	16180	20934	16654
65°	10412	16046	10412
70°	6962	9391	6962
75°	2761	4142	2761
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.9	6.8
10°-20°	521.6	17.7
20°-30°	665.5	22.6
30°-40°	629.1	21.4
40°-50°	477.8	16.2
50°-60°	295.1	10.0
60°-70°	128.8	4.4
70°-80°	26.9	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°	1386.0	47.1
0°-40°	2015.0	68.5
0°-60°	2787.9	94.7
0°-90°	2943.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2943.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2149	2149	2149	2149	2149	
5°	2116	2116	2114	2116	2116	199
15°	1859	1859	1865	1870	1873	520
25°	1445	1445	1453	1459	1464	662
35°	995	1003	1006	1014	1017	622
45°	600	616	619	627	616	465
55°	309	329	337	334	318	276
65°	102	119	158	122	102	107
75°	17	25	25	25	17	21
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°	2149.4	2149.4	2149.4	2149.4	2149.4
2.5°	2141.1	2141.1	2141.1	2141.1	2143.9
5°	2116.3	2116.3	2113.5	2116.3	2116.3
7.5°	2072.1	2074.8	2074.8	2074.8	2074.8
10°	2016.8	2016.8	2019.6	2022.3	2022.3
12.5°	1942.2	1945.0	1947.7	1953.3	1953.3
15°	1859.3	1859.3	1864.9	1870.4	1873.1
17.5°	1765.4	1765.4	1770.9	1776.4	1784.7
20°	1663.2	1663.2	1671.5	1679.8	1679.8
22.5°	1552.7	1552.7	1563.7	1566.5	1574.8
25°	1444.9	1444.9	1453.2	1458.7	1464.3
27.5°	1334.4	1331.6	1339.9	1345.5	1351.0
30°	1218.4	1218.4	1229.4	1229.4	1237.7
32.5°	1107.9	1107.9	1116.2	1121.7	1130.0
35°	994.6	1002.9	1005.6	1013.9	1016.7
37.5°	886.8	900.7	900.7	911.7	906.2
40°	787.4	795.7	801.2	806.7	806.7
42.5°	693.5	704.5	704.5	712.8	710.0
45°	599.5	616.1	618.9	627.1	616.1
47.5°	513.9	533.2	536.0	541.5	536.0
50°	442.0	455.9	464.1	464.1	453.1
52.5°	370.2	386.8	395.1	395.1	381.3
55°	309.4	328.8	337.1	334.3	317.7
57.5°	245.9	268.0	287.3	276.3	254.2
60°	187.9	215.5	243.1	221.0	193.4
62.5°	135.4	163.0	198.9	163.0	140.9
65°	102.2	118.8	157.5	121.6	102.2
67.5°	74.6	85.6	116.0	88.4	74.6
70°	55.3	63.5	74.6	63.5	55.3
72.5°	35.9	44.2	44.2	44.2	35.9
75°	16.6	24.9	24.9	24.9	16.6
77.5°	0.0	5.5	11.1	5.5	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)