

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: P241691

Luminaire Tested: **PRS430D010-S4M24-44SNDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-40)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SNDMW-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW 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: 2433.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.94
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

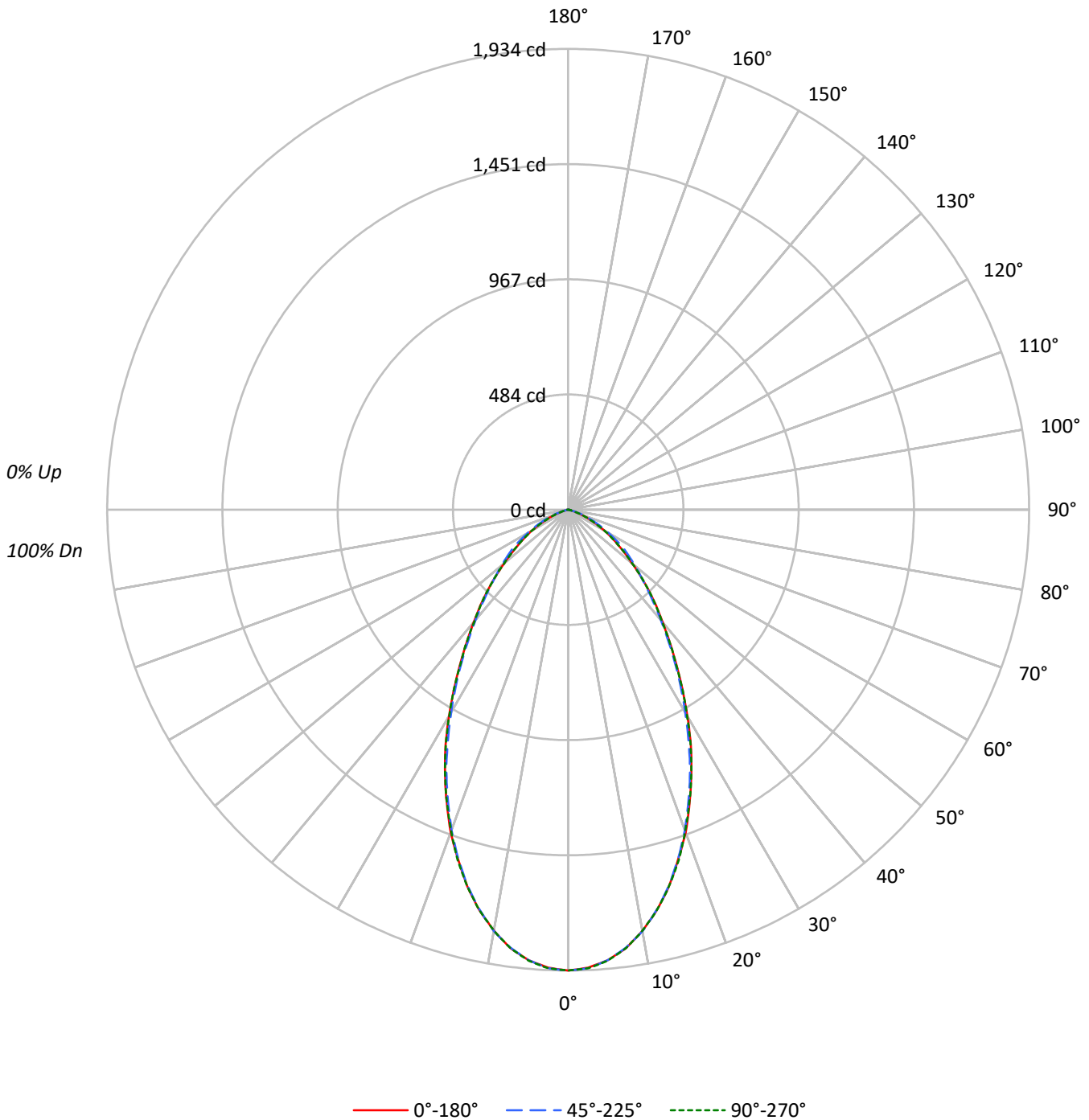
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72
4	91	82	75	69	89	80	74	69	78	73	68	76	71	67	74	70	66	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	148035	148035	148035
5°	145804	145804	146003
10°	139422	139624	139422
15°	129603	129397	129603
20°	117361	116514	116938
25°	103265	102167	103265
30°	88332	86732	88102
35°	73745	72773	73502
40°	61471	60442	61211
45°	51429	50585	51710
50°	41738	43583	41738
55°	33603	37766	33950
60°	26622	29806	26622
65°	19271	22567	19271
70°	11615	14524	11615
75°	3845	6151	3845
80°	3438	3438	3438
85°	2283	2283	2283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	7.3
10°-20°	455.9	18.7
20°-30°	556.4	22.9
30°-40°	491.8	20.2
40°-50°	367.0	15.1
50°-60°	238.0	9.8
60°-70°	117.3	4.8
70°-80°	25.5	1.0
80°-90°	3.2	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°	1190.3	48.9
0°-40°	1682.0	69.1
0°-60°	2287.1	94.0
0°-90°	2433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1898	1898	1898	1900	1900	178
15°	1636	1636	1633	1636	1636	456
25°	1223	1220	1210	1218	1223	560
35°	789	784	779	784	787	496
45°	475	475	467	472	478	368
55°	252	260	283	262	254	228
65°	106	119	125	117	106	108
75°	13	16	21	16	13	22
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°	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1923.6	1923.6	1926.2	1926.2	1926.2
5°	1897.6	1897.6	1897.6	1900.2	1900.2
7.5°	1856.1	1853.5	1853.5	1856.1	1856.1
10°	1793.8	1793.8	1796.4	1791.2	1793.8
12.5°	1721.1	1721.1	1718.5	1721.1	1721.1
15°	1635.5	1635.5	1632.9	1635.5	1635.5
17.5°	1536.8	1536.8	1534.2	1539.4	1542.0
20°	1440.8	1438.2	1430.4	1435.6	1435.6
22.5°	1331.7	1329.1	1318.7	1326.5	1329.1
25°	1222.7	1220.1	1209.7	1217.5	1222.7
27.5°	1113.7	1103.3	1092.9	1105.9	1111.1
30°	999.4	991.7	981.3	991.7	996.8
32.5°	890.4	887.8	877.4	885.2	890.4
35°	789.2	784.0	778.8	784.0	786.6
37.5°	698.3	693.1	685.3	693.1	698.3
40°	615.2	610.1	604.9	607.5	612.6
42.5°	545.2	540.0	532.2	537.4	542.6
45°	475.1	475.1	467.3	472.5	477.7
47.5°	410.2	415.4	412.8	415.4	412.8
50°	350.5	360.8	366.0	360.8	350.5
52.5°	298.5	306.3	321.9	306.3	298.5
55°	251.8	259.6	283.0	262.2	254.4
57.5°	212.9	220.7	238.8	220.7	212.9
60°	173.9	184.3	194.7	184.3	173.9
62.5°	140.2	150.6	158.4	150.6	137.6
65°	106.4	119.4	124.6	116.8	106.4
67.5°	77.9	88.3	93.5	88.3	77.9
70°	51.9	62.3	64.9	62.3	51.9
72.5°	31.2	38.9	38.9	36.3	31.2
75°	13.0	15.6	20.8	15.6	13.0
77.5°	10.4	10.4	10.4	10.4	10.4
80°	7.8	7.8	7.8	7.8	7.8
82.5°	5.2	5.2	5.2	5.2	5.2
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)