

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: P241656

Luminaire Tested: **PRS430D010-S4M24-44SMDMB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-38)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SMDMB
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" 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: 2528.1 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 1.06
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

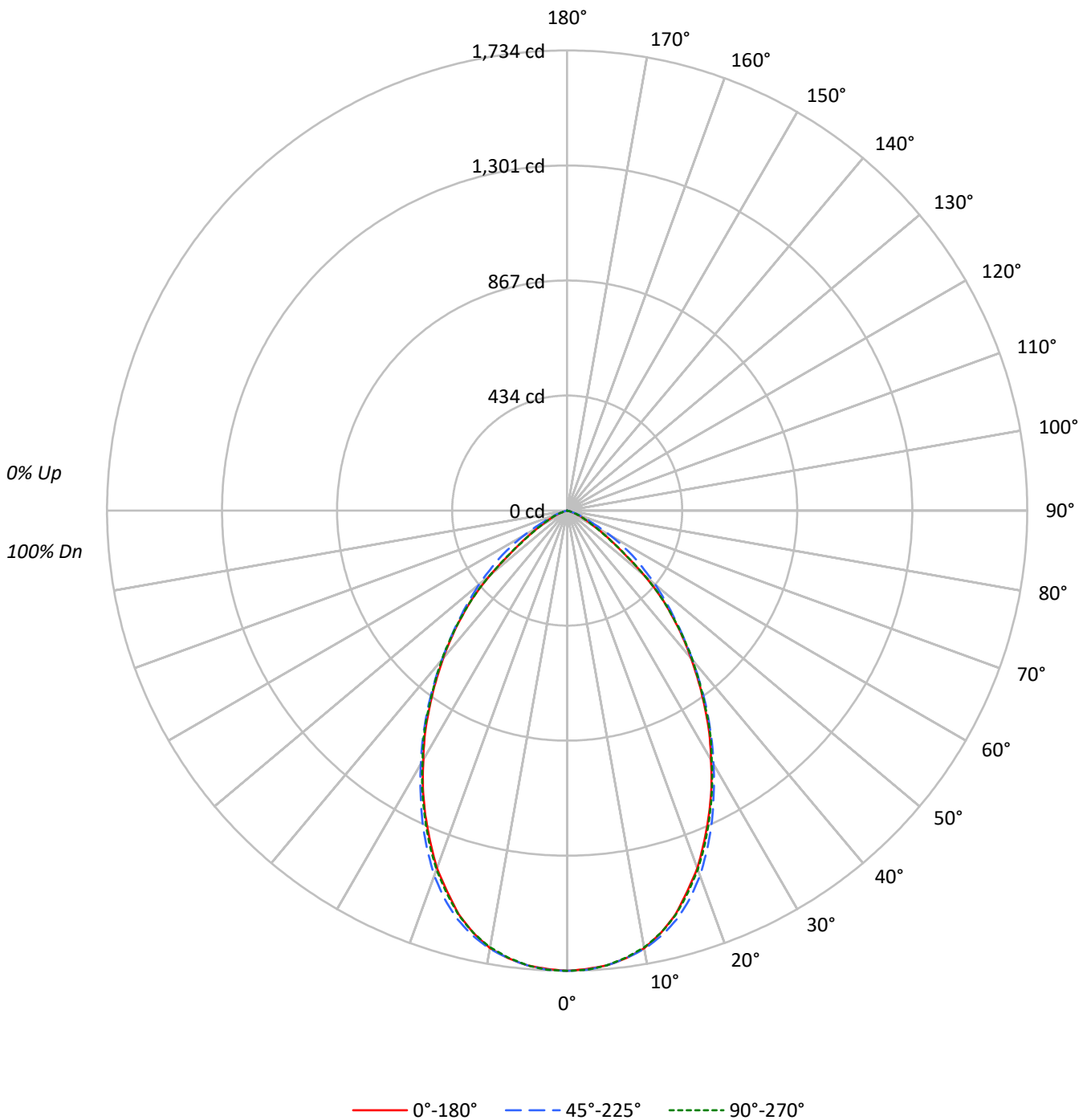
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91				
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81				
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73				
4	91	82	75	70	89	81	74	70	78	73	69	76	72	68	74	70	67	65				
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	53				
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48				
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44				
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41				
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	132742	132742	132742
5°	132204	132204	132204
10°	130118	130336	129908
15°	124872	126386	125086
20°	116791	119235	117239
25°	106795	109101	107251
30°	95827	97515	96313
35°	84472	85743	84976
40°	72592	73401	73401
45°	60305	61788	60608
50°	44881	51383	45203
55°	28425	41182	28064
60°	17972	28842	17559
65°	11863	16319	11863
70°	6714	8549	6714
75°	0	2425	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	6.4
10°-20°	443.5	17.5
20°-30°	587.1	23.2
30°-40°	571.8	22.6
40°-50°	437.9	17.3
50°-60°	233.5	9.2
60°-70°	81.2	3.2
70°-80°	10.4	0.4
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°	1193.3	47.2
0°-40°	1765.1	69.8
0°-60°	2436.5	96.4
0°-90°	2528.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2528.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1721	1721	1721	1721	1721	163
15°	1576	1587	1595	1587	1578	440
25°	1264	1284	1292	1284	1270	580
35°	904	918	918	923	909	564
45°	557	568	571	574	560	427
55°	213	246	309	248	210	200
65°	66	79	90	76	66	68
75°	0	3	8	3	0	7
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°	1734.2	1734.2	1734.2	1734.2	1734.2
2.5°	1728.7	1728.7	1731.5	1728.7	1731.5
5°	1720.6	1720.6	1720.6	1720.6	1720.6
7.5°	1701.4	1701.4	1701.4	1701.4	1698.7
10°	1674.1	1674.1	1676.9	1674.1	1671.4
12.5°	1630.4	1635.9	1641.4	1638.6	1630.4
15°	1575.8	1586.7	1594.9	1586.7	1578.5
17.5°	1504.8	1518.5	1534.8	1521.2	1510.3
20°	1433.8	1444.7	1463.8	1450.2	1439.3
22.5°	1349.1	1365.5	1379.2	1371.0	1357.3
25°	1264.5	1283.6	1291.8	1283.6	1269.9
27.5°	1177.1	1190.7	1196.2	1198.9	1182.5
30°	1084.2	1100.6	1103.3	1106.1	1089.7
32.5°	996.8	1010.5	1010.5	1018.7	1005.0
35°	904.0	917.6	917.6	923.1	909.4
37.5°	813.8	827.5	824.8	833.0	819.3
40°	726.5	737.4	734.6	740.1	734.6
42.5°	641.8	652.7	650.0	655.4	647.3
45°	557.1	568.1	570.8	573.5	559.9
47.5°	475.2	488.9	497.0	494.3	475.2
50°	376.9	409.7	431.5	415.1	379.6
52.5°	281.3	327.7	366.0	330.5	286.8
55°	213.0	245.8	308.6	248.5	210.3
57.5°	158.4	185.7	248.5	183.0	155.7
60°	117.4	139.3	188.4	136.6	114.7
62.5°	87.4	103.8	131.1	101.0	87.4
65°	65.5	79.2	90.1	76.5	65.5
67.5°	49.2	57.4	60.1	57.4	46.4
70°	30.0	38.2	38.2	38.2	30.0
72.5°	13.7	19.1	21.8	19.1	13.7
75°	0.0	2.7	8.2	2.7	0.0
77.5°	0.0	0.0	0.0	0.0	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)