

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: P241636

Luminaire Tested: **PRS430D010-S4M24-44SNDMB-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-37)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SNDMB-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1978.8 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.91
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

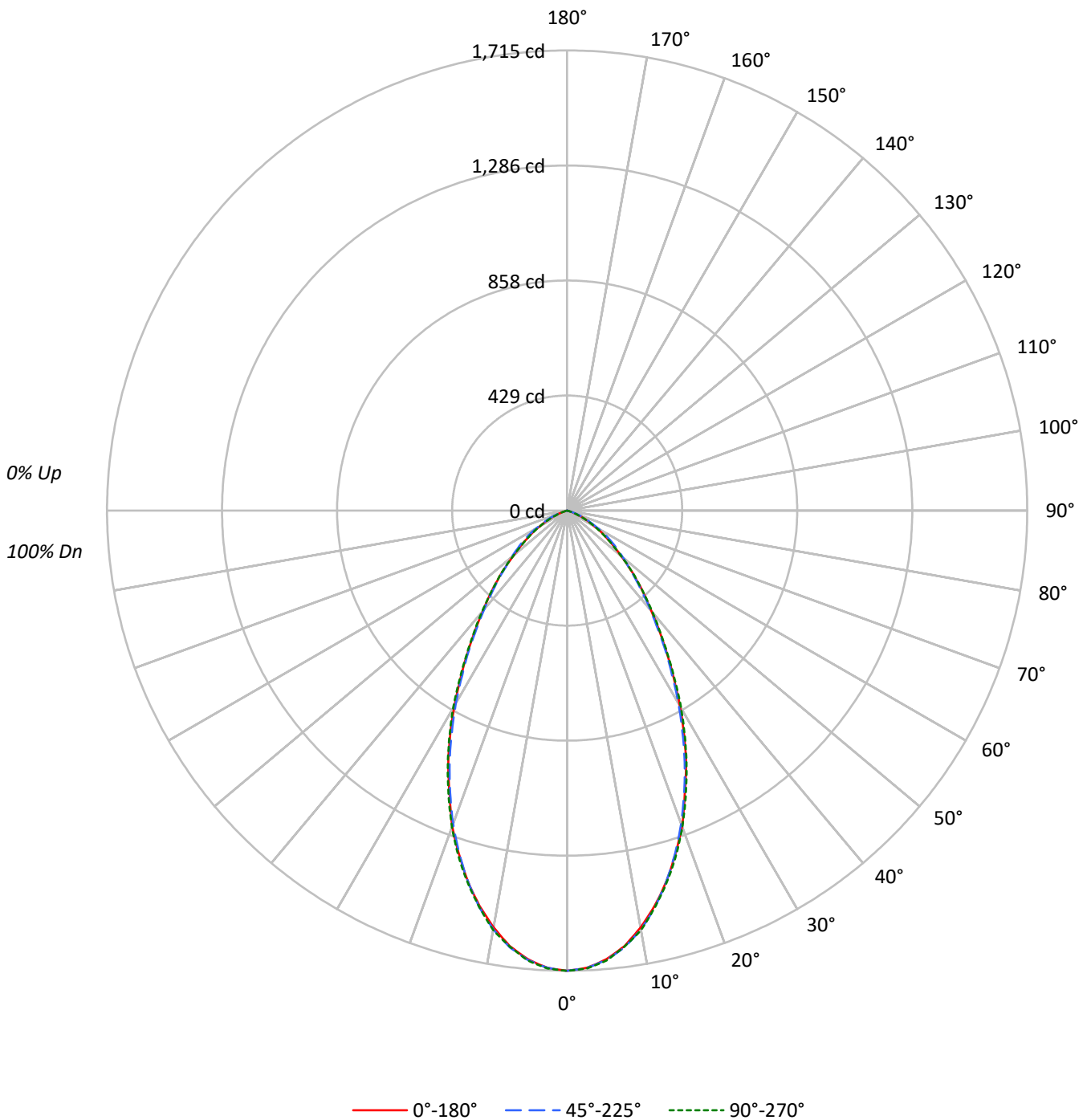
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	95	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	75	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67					67			
5	86	76	70	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61					61			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47					47			
9	68	57	50	46	67	56	50	45	55	49	45	54	49	45	54	49	45	43					43			
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	131303	131303	131303
5°	128969	129161	129345
10°	122618	123193	123387
15°	113310	113310	113707
20°	102040	101241	102243
25°	88552	87514	88966
30°	74181	73306	75047
35°	60485	59794	60943
40°	48691	48202	49431
45°	39695	38894	39965
50°	31068	32235	31068
55°	24635	26930	24301
60°	18080	20728	18080
65°	12479	14707	12044
70°	6065	8258	6065
75°	0	2188	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	8.0
10°-20°	399.3	20.2
20°-30°	477.1	24.1
30°-40°	404.8	20.5
40°-50°	283.7	14.3
50°-60°	171.1	8.6
60°-70°	76.0	3.8
70°-80°	9.5	0.5
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°	1033.7	52.2
0°-40°	1438.5	72.7
0°-60°	1893.4	95.7
0°-90°	1978.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1978.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1678	1681	1681	1681	1683	157
15°	1430	1430	1430	1437	1435	399
25°	1048	1044	1036	1046	1053	479
35°	647	645	640	650	652	406
45°	367	364	359	367	369	284
55°	185	187	202	187	182	165
65°	69	76	81	76	66	69
75°	0	2	7	2	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°	1715.4	1715.4	1715.4	1715.4	1715.4
2.5°	1705.6	1705.6	1705.6	1705.6	1708.1
5°	1678.5	1681.0	1681.0	1681.0	1683.4
7.5°	1636.7	1636.7	1641.6	1641.6	1639.1
10°	1577.6	1577.6	1585.0	1587.5	1587.5
12.5°	1508.7	1508.7	1513.6	1516.1	1513.6
15°	1429.9	1429.9	1429.9	1437.3	1434.9
17.5°	1341.3	1341.3	1338.9	1346.3	1348.7
20°	1252.7	1247.8	1242.9	1247.8	1255.2
22.5°	1144.4	1144.4	1139.5	1149.4	1154.3
25°	1048.5	1043.5	1036.2	1046.0	1053.4
27.5°	945.1	940.2	930.3	937.7	950.0
30°	839.3	836.8	829.4	836.8	849.1
32.5°	738.4	735.9	728.5	738.4	745.7
35°	647.3	644.8	639.9	649.8	652.2
37.5°	563.6	558.7	553.8	563.6	568.5
40°	487.3	487.3	482.4	487.3	494.7
42.5°	425.8	423.3	415.9	423.3	428.2
45°	366.7	364.3	359.3	366.7	369.2
47.5°	312.6	315.0	310.1	315.0	315.0
50°	260.9	268.3	270.7	268.3	260.9
52.5°	219.0	224.0	233.8	224.0	216.6
55°	184.6	187.0	201.8	187.0	182.1
57.5°	150.1	155.1	167.4	155.1	147.7
60°	118.1	128.0	135.4	125.5	118.1
62.5°	93.5	100.9	105.8	98.4	91.1
65°	68.9	76.3	81.2	76.3	66.5
67.5°	46.8	56.6	59.1	54.1	44.3
70°	27.1	34.5	36.9	34.5	27.1
72.5°	12.3	17.2	19.7	17.2	12.3
75°	0.0	2.5	7.4	2.5	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)