

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: P241816

Luminaire Tested: **PRS430D010-S4M24-41SNDMB-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-49)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-41SNDMB-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, DEEP 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: 1538.8 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.89
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

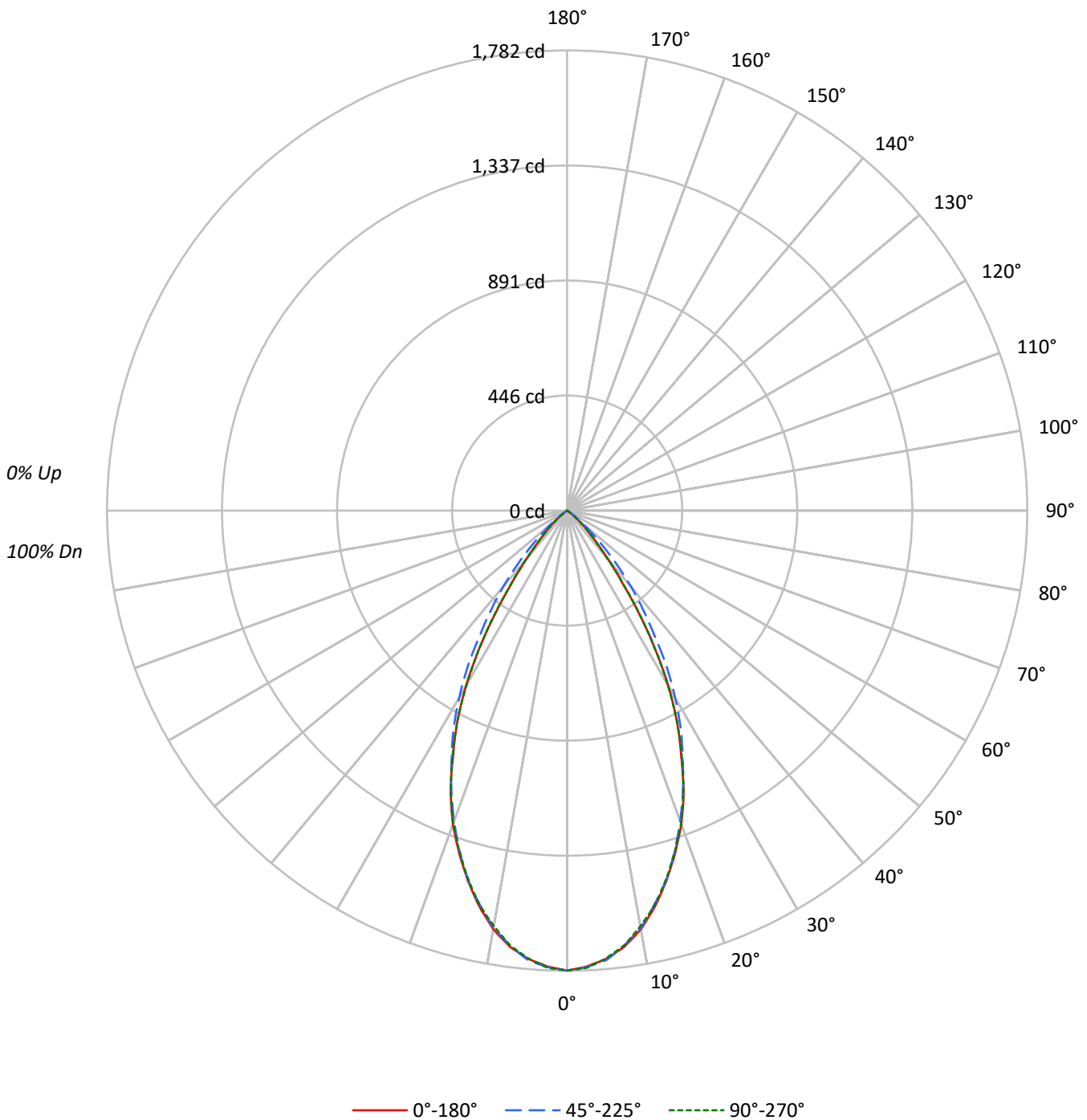
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	95	106	101	98	94	98	95	92	95	93	90	92	90	88	87					87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81					81			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75					75			
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70					70			
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65					65			
7	83	74	67	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61					61			
8	79	69	63	59	78	69	63	59	67	62	59	66	62	58	65	61	58	57					57			
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53					53			
10	71	62	56	52	70	61	56	52	60	55	52	60	55	51	59	54	51	50					50			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	136362	136362	136362
5°	133863	134240	133671
10°	127957	127577	127001
15°	117613	117415	117217
20°	105282	104280	105078
25°	88198	89448	88823
30°	69285	73845	68843
35°	45002	54879	45460
40°	24800	38549	24311
45°	12232	21812	12763
50°	5561	9657	5561
55°	334	3603	334
60°	0	750	383
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	10.6
10°-20°	412.8	26.8
20°-30°	481.0	31.3
30°-40°	336.1	21.8
40°-50°	125.7	8.2
50°-60°	19.8	1.3
60°-70°	0.3	0.0
70°-80°	0.0	0.0
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°	1056.9	68.7
0°-40°	1393.0	90.5
0°-60°	1538.5	100.0
0°-90°	1538.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1538.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1782	1782	1782	1782	1782	
5°	1742	1745	1747	1740	1740	163
15°	1484	1484	1482	1482	1479	414
25°	1044	1059	1059	1062	1052	477
35°	482	536	587	538	486	304
45°	113	147	202	147	118	96
55°	2	15	27	17	2	11
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
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°	1781.5	1781.5	1781.5	1781.5	1781.5
2.5°	1766.7	1766.7	1769.2	1769.2	1771.7
5°	1742.2	1744.6	1747.1	1739.7	1739.7
7.5°	1702.8	1700.4	1697.9	1697.9	1697.9
10°	1646.3	1643.9	1641.4	1636.5	1634.0
12.5°	1570.2	1567.7	1562.8	1565.2	1565.2
15°	1484.2	1484.2	1481.7	1481.7	1479.2
17.5°	1390.8	1388.3	1383.4	1385.9	1385.9
20°	1292.5	1287.6	1280.2	1282.7	1290.0
22.5°	1179.5	1181.9	1172.1	1177.0	1177.0
25°	1044.3	1059.1	1059.1	1061.5	1051.7
27.5°	921.5	931.3	953.4	928.8	921.5
30°	783.9	803.5	835.5	801.1	778.9
32.5°	631.5	670.8	717.5	673.3	631.5
35°	481.6	535.7	587.3	538.1	486.5
37.5°	346.5	407.9	481.6	412.8	351.4
40°	248.2	302.2	385.8	302.2	243.3
42.5°	169.5	211.3	287.5	213.8	169.5
45°	113.0	147.4	201.5	147.4	117.9
47.5°	76.2	100.7	130.2	100.7	76.2
50°	46.7	66.3	81.1	66.3	46.7
52.5°	22.1	36.9	46.7	36.9	22.1
55°	2.5	14.7	27.0	17.2	2.5
57.5°	2.5	2.5	14.7	2.5	2.5
60°	0.0	2.5	4.9	2.5	2.5
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	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)