

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: P241751

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-44)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SMDH-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2614.8 lumens
Efficiency: N/A
Efficacy: 104.6 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

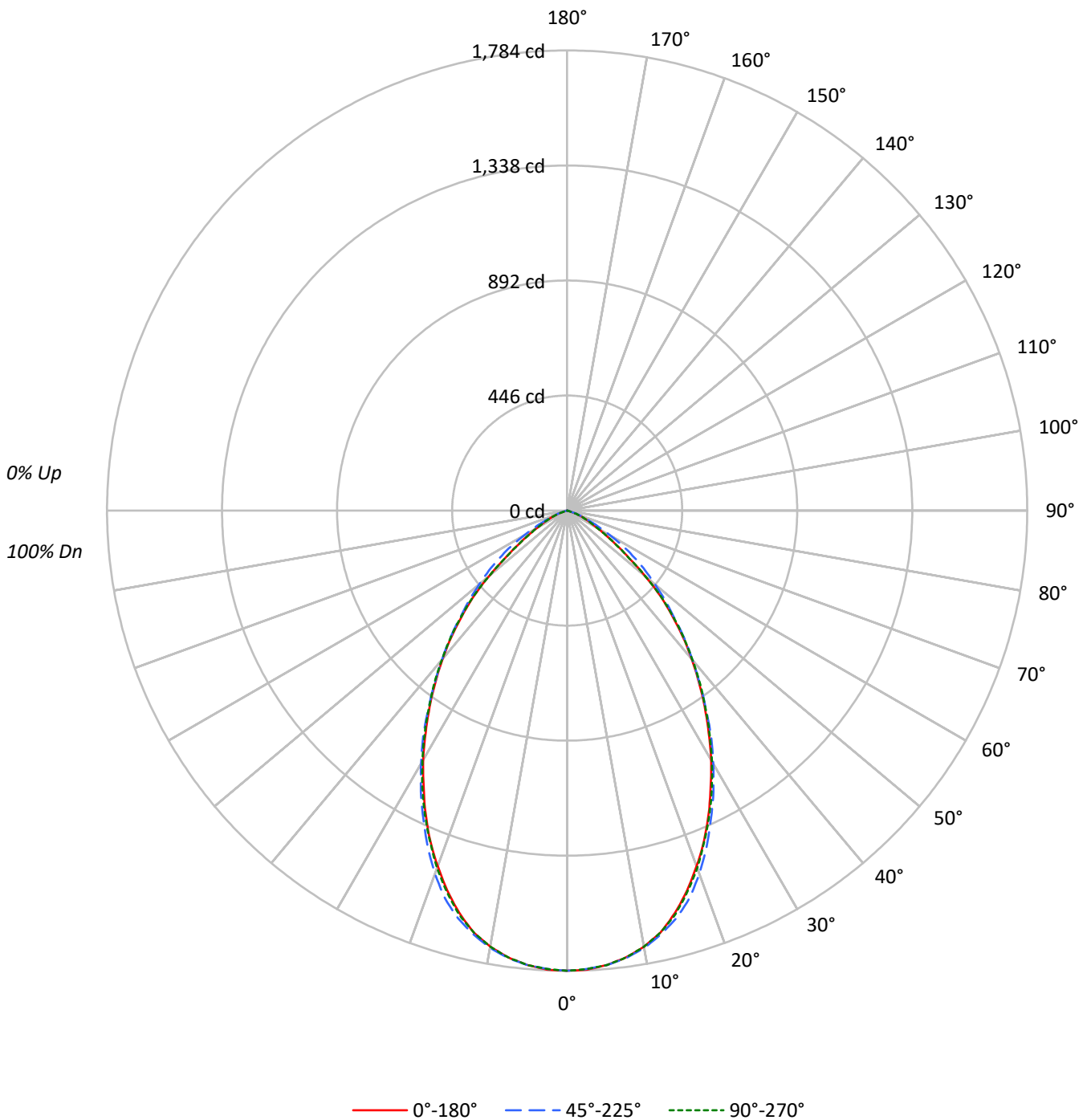
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	102	100	98	99	97	95	95	94	92	91					91			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81					81			
3	98	90	83	79	96	88	83	78	85	81	77	83	79	75	81	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41					41			
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°	136553	136553	136553
5°	135876	135876	135876
10°	133406	133810	133406
15°	127994	129635	128406
20°	119512	122045	120139
25°	109658	111406	110097
30°	98690	100069	99150
35°	86864	87593	87350
40°	74990	75510	75510
45°	62124	63531	62968
50°	47001	52872	47001
55°	31187	42624	30840
60°	20667	29821	20667
65°	14580	17876	14109
70°	8146	9288	8146
75°	769	3076	769
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	6.4
10°-20°	455.1	17.4
20°-30°	602.0	23.0
30°-40°	586.6	22.4
40°-50°	452.1	17.3
50°-60°	247.1	9.4
60°-70°	91.4	3.5
70°-80°	13.3	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°	1224.3	46.8
0°-40°	1810.9	69.3
0°-60°	2510.0	96.0
0°-90°	2614.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2614.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1768	1768	1768	1768	1768	167
15°	1615	1626	1636	1628	1620	452
25°	1298	1314	1319	1319	1304	595
35°	930	940	937	948	935	580
45°	574	590	587	592	582	442
55°	234	262	319	265	231	217
65°	80	88	99	88	78	81
75°	3	5	10	5	3	9
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°	1784.0	1784.0	1784.0	1784.0	1784.0
2.5°	1781.4	1778.8	1778.8	1778.8	1778.8
5°	1768.4	1768.4	1768.4	1768.4	1768.4
7.5°	1747.6	1747.6	1750.2	1747.6	1747.6
10°	1716.4	1719.0	1721.6	1721.6	1716.4
12.5°	1674.9	1680.1	1682.7	1680.1	1674.9
15°	1615.2	1625.6	1635.9	1628.2	1620.4
17.5°	1545.1	1558.0	1576.2	1560.6	1550.3
20°	1467.2	1482.7	1498.3	1487.9	1474.9
22.5°	1386.7	1399.6	1412.6	1407.4	1389.3
25°	1298.4	1314.0	1319.1	1319.1	1303.6
27.5°	1204.9	1223.1	1228.3	1225.7	1215.3
30°	1116.6	1129.6	1132.2	1134.8	1121.8
32.5°	1020.5	1033.5	1038.7	1041.3	1028.3
35°	929.6	940.0	937.4	947.8	934.8
37.5°	838.7	849.1	843.9	854.3	846.5
40°	750.5	755.7	755.7	763.4	755.7
42.5°	664.8	670.0	672.6	675.2	670.0
45°	573.9	589.5	586.9	592.1	581.7
47.5°	490.8	503.8	514.2	509.0	493.4
50°	394.7	425.9	444.0	431.1	394.7
52.5°	303.8	340.2	381.7	342.8	303.8
55°	233.7	262.3	319.4	264.9	231.1
57.5°	176.6	199.9	257.1	199.9	176.6
60°	135.0	153.2	194.8	153.2	135.0
62.5°	103.9	116.9	140.2	116.9	103.9
65°	80.5	88.3	98.7	88.3	77.9
67.5°	57.1	64.9	64.9	64.9	57.1
70°	36.4	44.1	41.5	44.1	36.4
72.5°	15.6	23.4	26.0	23.4	15.6
75°	2.6	5.2	10.4	5.2	2.6
77.5°	0.0	2.6	2.6	2.6	2.6
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)