

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: P241741

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241741
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-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2475.4 lumens
Efficiency: N/A
Efficacy: 99.0 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

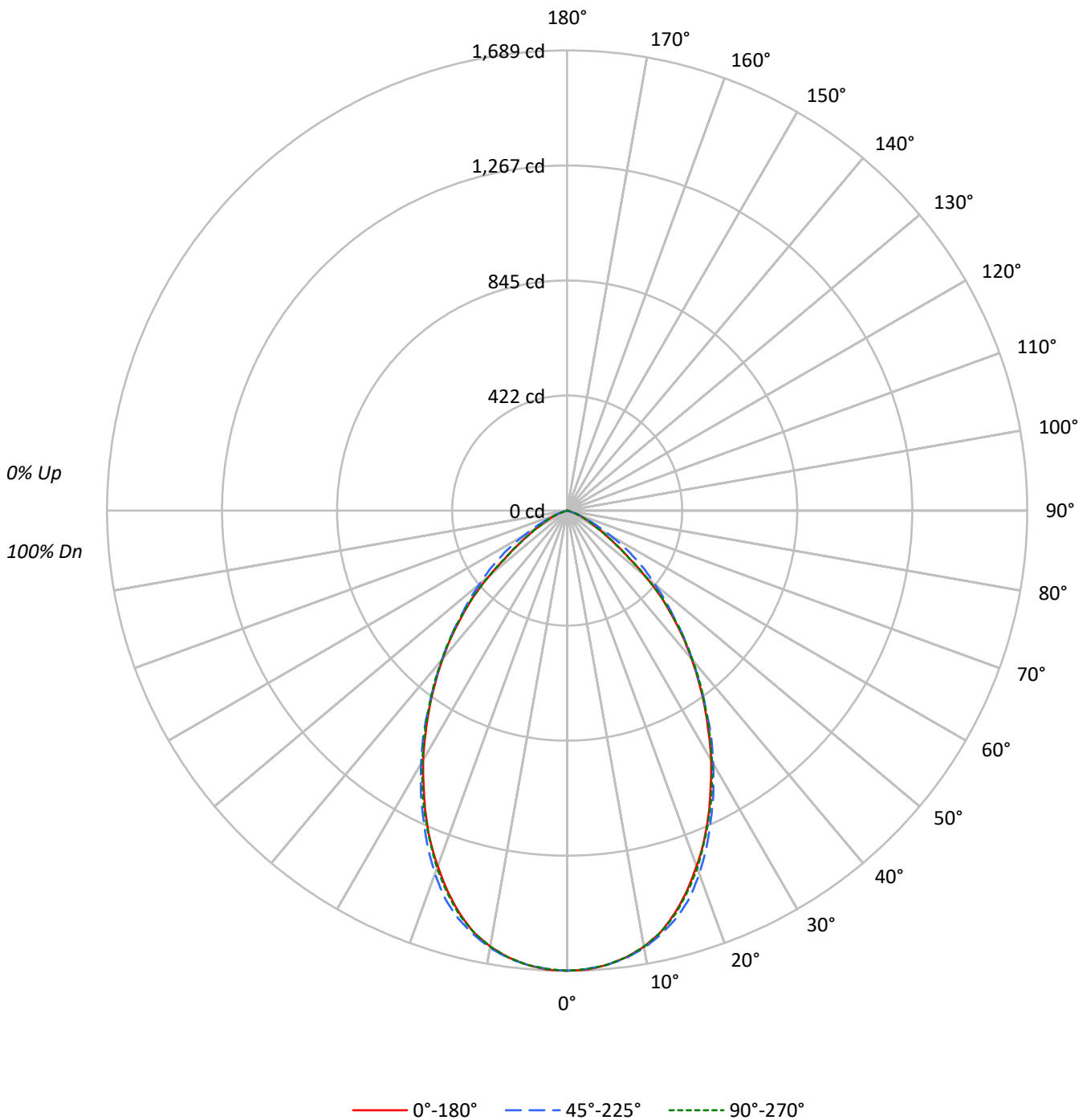
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	129274	129274	129274
5°	128631	128631	128631
10°	126302	126683	126302
15°	121171	122732	121560
20°	113142	115545	113737
25°	103814	105469	104228
30°	93431	94731	93865
35°	82239	82930	82696
40°	70993	71483	71483
45°	58812	60143	59613
50°	44500	50061	44500
55°	29532	40355	29199
60°	19564	28229	19564
65°	13801	16916	13366
70°	7699	8795	7699
75°	739	2898	739
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	6.4
10°-20°	430.8	17.4
20°-30°	569.9	23.0
30°-40°	555.4	22.4
40°-50°	428.0	17.3
50°-60°	233.9	9.4
60°-70°	86.5	3.5
70°-80°	12.6	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°	1159.0	46.8
0°-40°	1714.4	69.3
0°-60°	2376.2	96.0
0°-90°	2475.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2475.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1689	1689	1689	1689	1689	
5°	1674	1674	1674	1674	1674	158
15°	1529	1539	1549	1541	1534	428
25°	1229	1244	1249	1249	1234	563
35°	880	890	888	897	885	549
45°	543	558	556	560	551	418
55°	221	248	302	251	219	206
65°	76	84	93	84	74	76
75°	2	5	10	5	2	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°	1688.9	1688.9	1688.9	1688.9	1688.9
2.5°	1686.4	1684.0	1684.0	1684.0	1684.0
5°	1674.1	1674.1	1674.1	1674.1	1674.1
7.5°	1654.5	1654.5	1656.9	1654.5	1654.5
10°	1625.0	1627.4	1629.9	1629.9	1625.0
12.5°	1585.6	1590.6	1593.0	1590.6	1585.6
15°	1529.1	1538.9	1548.8	1541.4	1534.0
17.5°	1462.7	1475.0	1492.2	1477.5	1467.6
20°	1389.0	1403.7	1418.5	1408.6	1396.3
22.5°	1312.8	1325.1	1337.3	1332.4	1315.2
25°	1229.2	1243.9	1248.8	1248.8	1234.1
27.5°	1140.7	1157.9	1162.8	1160.3	1150.5
30°	1057.1	1069.4	1071.8	1074.3	1062.0
32.5°	966.1	978.4	983.3	985.8	973.5
35°	880.1	889.9	887.5	897.3	885.0
37.5°	794.1	803.9	799.0	808.8	801.4
40°	710.5	715.4	715.4	722.8	715.4
42.5°	629.3	634.3	636.7	639.2	634.3
45°	543.3	558.0	555.6	560.5	550.7
47.5°	464.6	476.9	486.8	481.8	467.1
50°	373.7	403.2	420.4	408.1	373.7
52.5°	287.6	322.0	361.4	324.5	287.6
55°	221.3	248.3	302.4	250.8	218.8
57.5°	167.2	189.3	243.4	189.3	167.2
60°	127.8	145.0	184.4	145.0	127.8
62.5°	98.3	110.6	132.8	110.6	98.3
65°	76.2	83.6	93.4	83.6	73.8
67.5°	54.1	61.5	61.5	61.5	54.1
70°	34.4	41.8	39.3	41.8	34.4
72.5°	14.8	22.1	24.6	22.1	14.8
75°	2.5	4.9	9.8	4.9	2.5
77.5°	0.0	2.5	2.5	2.5	2.5
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)