

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: P241886

Luminaire Tested: **PRS430D010-S4M24-41SMDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-41SMDMW-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2373.3 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 1.02
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

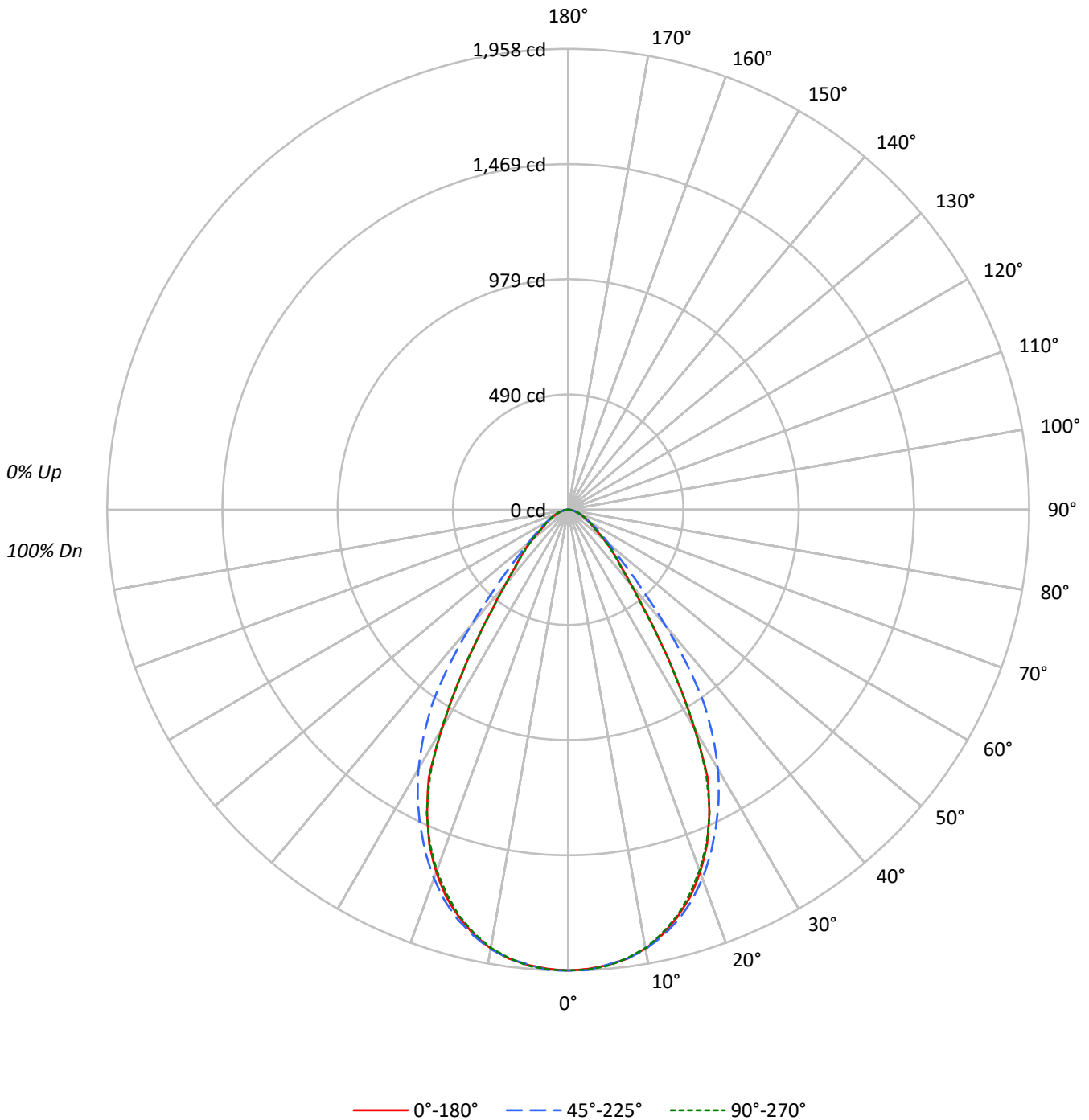
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	98	99	97	95	95	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	77	73	70	68					68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	62	58	54	53					53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	51	59	54	50	49					49			
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	149872	149872	149872
5°	149246	149046	149446
10°	147140	147342	146938
15°	141989	143019	141577
20°	133473	135795	132838
25°	119742	125451	119962
30°	94563	112461	95252
35°	63092	93909	63092
40°	41517	64349	40997
45°	31197	39078	30916
50°	24114	26591	23816
55°	17669	20444	17669
60°	15508	16304	15508
65°	13638	14109	13638
70°	11615	12197	12197
75°	10765	10765	10765
80°	9169	9169	9169
85°	6850	9134	6850



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	7.7
10°-20°	503.1	21.2
20°-30°	660.7	27.8
30°-40°	509.6	21.5
40°-50°	256.1	10.8
50°-60°	134.5	5.7
60°-70°	76.0	3.2
70°-80°	38.6	1.6
80°-90°	10.6	0.4
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°	1347.7	56.8
0°-40°	1857.3	78.3
0°-60°	2248.0	94.7
0°-90°	2373.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2373.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1958	1958	1958	1958	1958	
5°	1942	1945	1940	1945	1945	184
15°	1792	1797	1805	1794	1787	502
25°	1418	1459	1485	1457	1420	640
35°	675	789	1005	792	675	432
45°	288	317	361	314	286	226
55°	132	145	153	145	132	125
65°	75	75	78	75	75	75
75°	36	36	36	36	36	38
85°	8	8	10	8	8	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1958.0	1958.0	1958.0	1958.0	1958.0
2.5°	1952.8	1955.4	1958.0	1955.4	1955.4
5°	1942.4	1945.0	1939.8	1945.0	1945.0
7.5°	1924.2	1921.6	1924.2	1921.6	1921.6
10°	1893.1	1893.1	1895.7	1890.5	1890.5
12.5°	1848.9	1851.5	1854.1	1851.5	1843.7
15°	1791.8	1797.0	1804.8	1794.4	1786.6
17.5°	1724.3	1729.5	1742.4	1726.9	1713.9
20°	1638.6	1651.6	1667.1	1651.6	1630.8
22.5°	1539.9	1565.9	1581.4	1560.7	1534.7
25°	1417.8	1459.4	1485.4	1456.8	1420.4
27.5°	1282.8	1334.7	1384.1	1339.9	1269.8
30°	1069.9	1178.9	1272.4	1184.1	1077.7
32.5°	864.7	984.2	1145.2	984.2	864.7
35°	675.2	789.4	1005.0	792.0	675.2
37.5°	522.0	620.6	828.4	620.6	516.8
40°	415.5	480.4	644.0	477.8	410.3
42.5°	337.6	384.3	477.8	381.7	332.4
45°	288.2	316.8	361.0	314.2	285.6
47.5°	244.1	267.5	275.3	264.9	241.5
50°	202.5	225.9	223.3	223.3	200.0
52.5°	163.6	181.8	184.4	181.8	163.6
55°	132.4	145.4	153.2	145.4	132.4
57.5°	114.3	119.5	129.8	119.5	116.9
60°	101.3	103.9	106.5	103.9	101.3
62.5°	88.3	88.3	88.3	88.3	88.3
65°	75.3	75.3	77.9	75.3	75.3
67.5°	62.3	64.9	64.9	64.9	62.3
70°	51.9	54.5	54.5	54.5	54.5
72.5°	44.1	44.1	44.1	44.1	44.1
75°	36.4	36.4	36.4	36.4	36.4
77.5°	28.6	28.6	28.6	28.6	28.6
80°	20.8	20.8	20.8	20.8	20.8
82.5°	13.0	15.6	15.6	15.6	13.0
85°	7.8	7.8	10.4	7.8	7.8
87.5°	5.2	5.2	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)