

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: P241706

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-41)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SMDMW-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SHALLOW 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: 2721.2 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.08
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

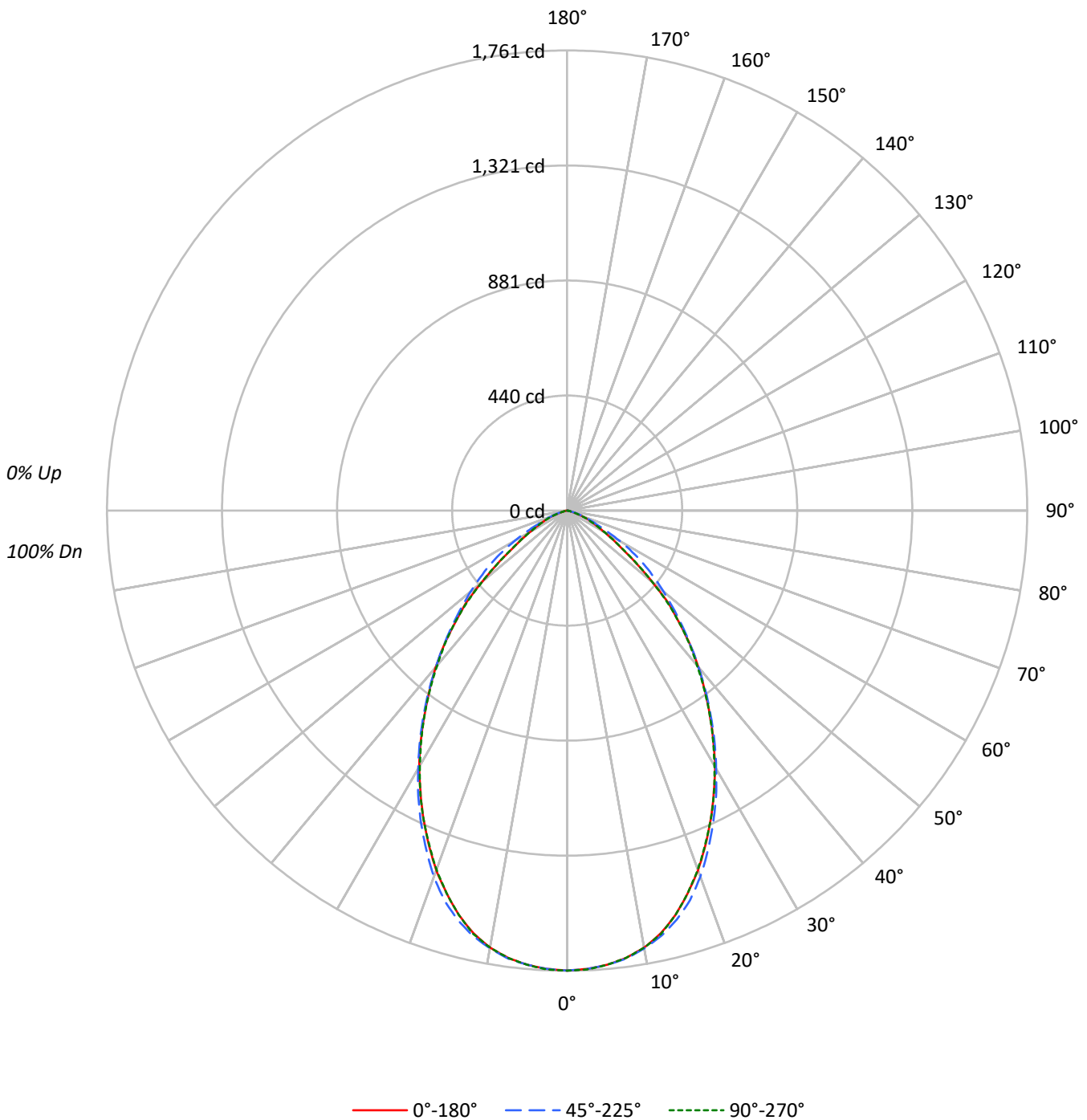
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80					80			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71					71			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	60	71	65	60	69	64	59	67	62	59	57					57			
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	47	41	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	134762	134762	134762
5°	134078	134078	134078
10°	131999	132201	131999
15°	126964	128406	126964
20°	119300	121418	119088
25°	109878	111634	109878
30°	100069	100759	99610
35°	88807	89536	88807
40°	78098	78098	77318
45°	65501	67179	65772
50°	50716	57206	50716
55°	35004	47828	35351
60°	25045	35378	25045
65°	18818	22567	18347
70°	12197	14524	12779
75°	4614	7689	4614
80°	3438	4584	3438
85°	2283	2283	2283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	6.1
10°-20°	451.1	16.6
20°-30°	602.6	22.1
30°-40°	598.4	22.0
40°-50°	475.9	17.5
50°-60°	278.0	10.2
60°-70°	117.2	4.3
70°-80°	28.8	1.1
80°-90°	4.2	0.2
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
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0°-30°	1218.8	44.8
0°-40°	1817.2	66.8
0°-60°	2571.1	94.5
0°-90°	2721.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2721.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1745	1745	1745	1745	1745	165
15°	1602	1613	1620	1613	1602	448
25°	1301	1319	1322	1317	1301	597
35°	950	966	958	961	950	595
45°	605	621	621	621	608	467
55°	262	299	358	299	265	245
65°	104	114	125	114	101	104
75°	16	18	26	21	16	25
85°	3	3	3	3	3	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1760.6	1760.6	1760.6	1760.6	1760.6
2.5°	1755.4	1755.4	1755.4	1755.4	1758.0
5°	1745.0	1745.0	1745.0	1745.0	1745.0
7.5°	1726.9	1726.9	1729.5	1729.5	1726.9
10°	1698.3	1698.3	1700.9	1700.9	1698.3
12.5°	1656.8	1661.9	1667.1	1661.9	1659.3
15°	1602.2	1612.6	1620.4	1612.6	1602.2
17.5°	1534.7	1547.7	1563.3	1547.7	1534.7
20°	1464.6	1477.6	1490.6	1475.0	1462.0
22.5°	1384.1	1399.7	1407.5	1397.1	1381.5
25°	1301.0	1319.2	1321.8	1316.6	1301.0
27.5°	1215.3	1228.3	1233.5	1230.9	1217.9
30°	1132.2	1145.2	1140.0	1142.6	1127.0
32.5°	1041.3	1054.3	1049.1	1049.1	1038.7
35°	950.4	966.0	958.2	960.8	950.4
37.5°	864.7	872.5	869.9	872.5	862.1
40°	781.6	786.8	781.6	786.8	773.8
42.5°	695.9	703.7	698.5	703.7	693.3
45°	605.1	620.6	620.6	620.6	607.6
47.5°	527.1	540.1	547.9	540.1	519.4
50°	425.9	464.8	480.4	462.2	425.9
52.5°	337.6	376.5	418.1	376.5	340.2
55°	262.3	298.6	358.4	298.6	264.9
57.5°	207.7	233.7	296.0	233.7	207.7
60°	163.6	184.4	231.1	184.4	163.6
62.5°	129.8	145.4	171.4	145.4	129.8
65°	103.9	114.3	124.6	114.3	101.3
67.5°	80.5	88.3	90.9	88.3	77.9
70°	54.5	64.9	64.9	64.9	57.1
72.5°	33.8	41.5	44.1	41.5	33.8
75°	15.6	18.2	26.0	20.8	15.6
77.5°	13.0	13.0	13.0	13.0	13.0
80°	7.8	10.4	10.4	10.4	7.8
82.5°	5.2	5.2	5.2	5.2	5.2
85°	2.6	2.6	2.6	2.6	2.6
87.5°	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)