

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: P241871

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-52)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-41SNDMW-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW 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: 2191.5 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.93
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

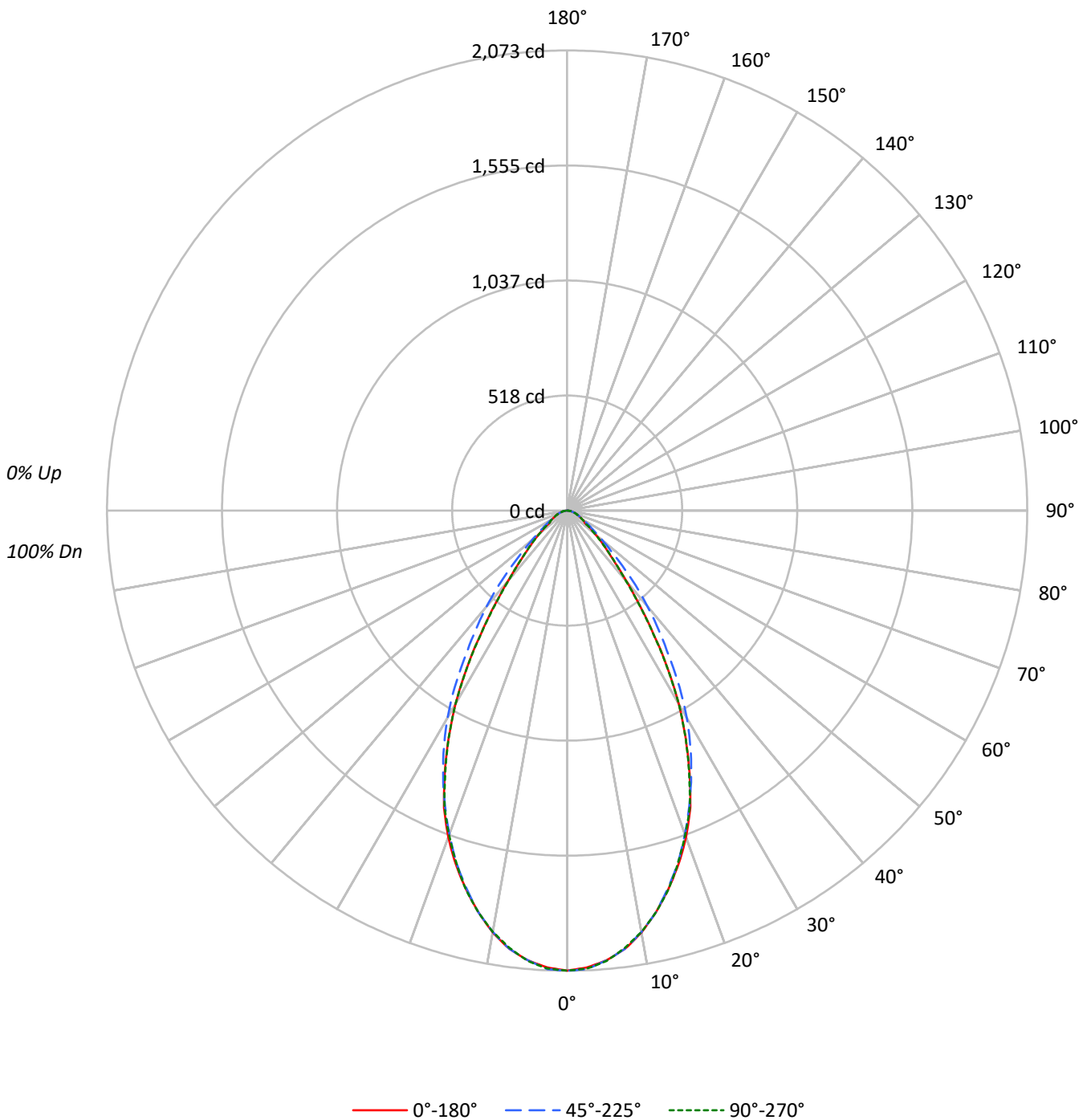
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	66	72	68	65	63
6	83	73	66	61	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	79	68	61	57	77	67	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	49	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	158651	158651	158651
5°	156261	156261	156461
10°	149992	149790	149790
15°	139754	139342	139960
20°	127576	126305	126729
25°	110123	111660	109683
30°	88844	95270	88844
35°	63344	74511	62859
40°	41267	56315	40748
45°	27549	37952	27831
50°	19791	24126	19482
55°	13171	16988	13171
60°	11925	12722	11925
65°	10813	10813	10813
70°	9892	9892	9892
75°	8458	8458	8458
80°	8022	8022	8022
85°	6850	6850	6850



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.9	8.7
10°-20°	492.2	22.5
20°-30°	598.3	27.3
30°-40°	463.1	21.1
40°-50°	238.5	10.9
50°-60°	108.0	4.9
60°-70°	59.9	2.7
70°-80°	31.5	1.4
80°-90°	9.1	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°	1281.4	58.5
0°-40°	1744.5	79.6
0°-60°	2091.0	95.4
0°-90°	2191.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2191.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2073	2073	2073	2073	2073	
5°	2034	2039	2034	2036	2036	191
15°	1764	1764	1758	1761	1766	493
25°	1304	1320	1322	1317	1299	593
35°	678	745	797	743	673	426
45°	254	294	351	294	257	205
55°	99	114	127	114	99	98
65°	60	60	60	60	60	59
75°	29	29	29	29	29	32
85°	8	8	8	8	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2059.7	2062.3	2067.5	2064.9	2064.9
5°	2033.7	2038.9	2033.7	2036.3	2036.3
7.5°	1992.2	1992.2	1992.2	1987.0	1987.0
10°	1929.8	1927.2	1927.2	1927.2	1927.2
12.5°	1851.9	1854.5	1851.9	1854.5	1851.9
15°	1763.6	1763.6	1758.4	1761.0	1766.2
17.5°	1670.1	1667.5	1662.3	1659.7	1662.3
20°	1566.2	1558.4	1550.6	1555.8	1555.8
22.5°	1449.3	1446.7	1438.9	1441.5	1444.1
25°	1303.9	1319.5	1322.1	1316.9	1298.7
27.5°	1155.8	1174.0	1202.6	1174.0	1155.8
30°	1005.2	1033.8	1077.9	1033.8	1005.2
32.5°	841.5	893.5	942.8	896.1	838.9
35°	677.9	745.4	797.4	742.8	672.7
37.5°	532.5	597.4	675.3	600.0	529.9
40°	413.0	472.7	563.6	472.7	407.8
42.5°	322.1	374.0	454.5	371.4	322.1
45°	254.5	293.5	350.6	293.5	257.1
47.5°	207.8	236.4	264.9	236.4	207.8
50°	166.2	187.0	202.6	187.0	163.6
52.5°	129.9	148.0	158.4	148.0	129.9
55°	98.7	114.3	127.3	114.3	98.7
57.5°	88.3	90.9	103.9	90.9	88.3
60°	77.9	77.9	83.1	77.9	77.9
62.5°	67.5	70.1	70.1	70.1	67.5
65°	59.7	59.7	59.7	59.7	59.7
67.5°	49.3	51.9	51.9	51.9	49.3
70°	44.2	44.2	44.2	44.2	44.2
72.5°	36.4	36.4	36.4	36.4	36.4
75°	28.6	28.6	28.6	28.6	28.6
77.5°	23.4	23.4	23.4	23.4	23.4
80°	18.2	18.2	18.2	18.2	18.2
82.5°	13.0	13.0	13.0	13.0	13.0
85°	7.8	7.8	7.8	7.8	7.8
87.5°	2.6	2.6	2.6	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)