

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: P241861

Luminaire Tested: **PRS430D010-S4M24-41SNDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241861
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-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2074.7 lumens
Efficiency: N/A
Efficacy: 83.0 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

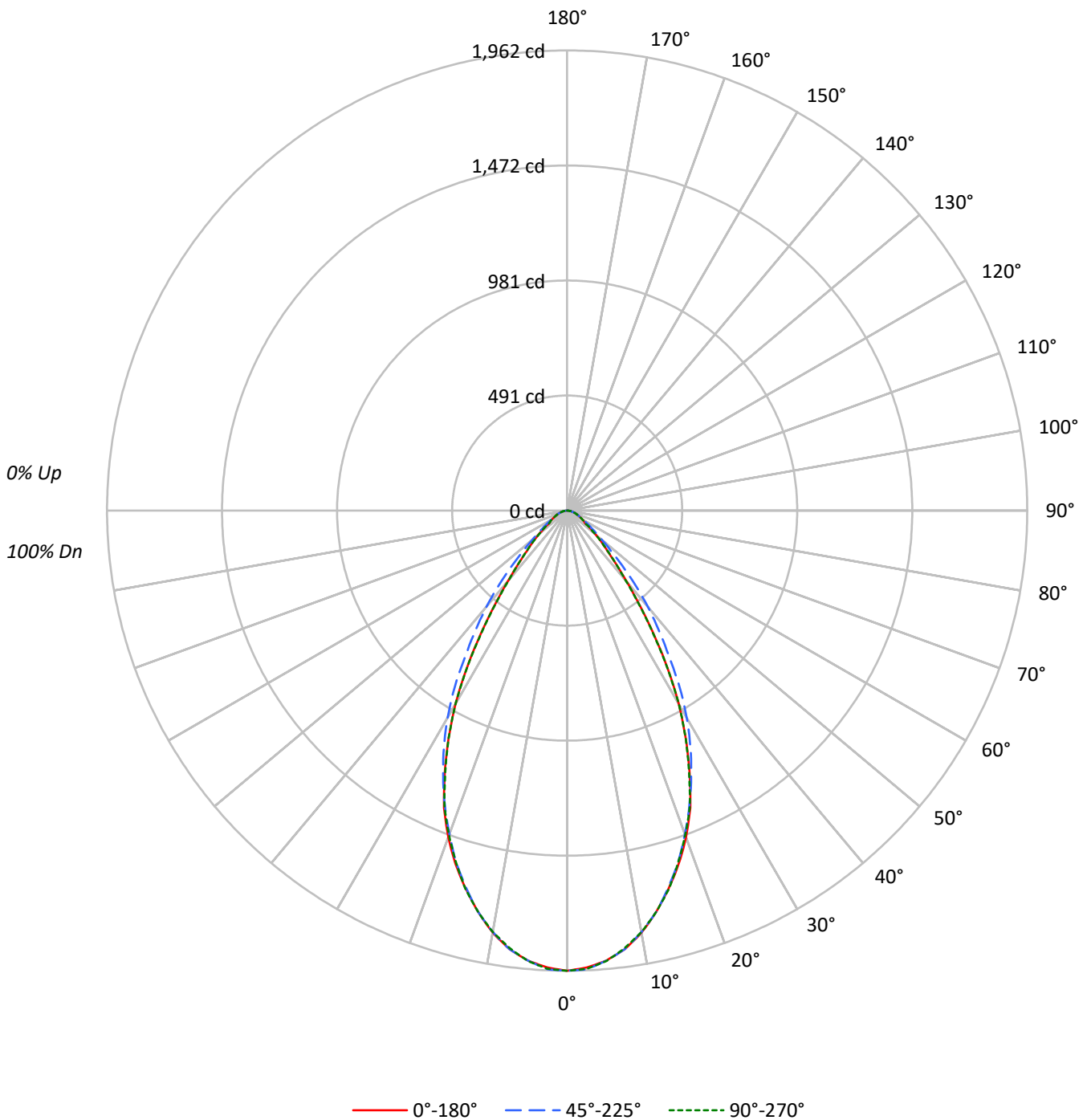
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	150193	150193	150193
5°	147940	147940	148124
10°	142002	141808	141808
15°	132305	131917	132503
20°	120774	119577	119976
25°	104253	105705	103839
30°	84107	90197	84107
35°	59971	70540	59513
40°	39069	53317	38579
45°	26088	35939	26348
50°	18743	22840	18446
55°	12464	16081	12464
60°	11298	12048	11298
65°	10251	10251	10251
70°	9355	9355	9355
75°	7985	7985	7985
80°	7582	7582	7582
85°	6499	6499	6499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	8.7
10°-20°	465.9	22.5
20°-30°	566.4	27.3
30°-40°	438.4	21.1
40°-50°	225.8	10.9
50°-60°	102.2	4.9
60°-70°	56.7	2.7
70°-80°	29.8	1.4
80°-90°	8.6	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°	1213.1	58.5
0°-40°	1651.5	79.6
0°-60°	1979.6	95.4
0°-90°	2074.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2074.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1962	1962	1962	1962	1962	
5°	1925	1930	1925	1928	1928	181
15°	1670	1670	1665	1667	1672	467
25°	1234	1249	1252	1247	1230	562
35°	642	706	755	703	637	404
45°	241	278	332	278	243	194
55°	93	108	120	108	93	92
65°	57	57	57	57	57	56
75°	27	27	27	27	27	30
85°	7	7	7	7	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1962.2	1962.2	1962.2	1962.2	1962.2
2.5°	1949.9	1952.4	1957.3	1954.9	1954.9
5°	1925.4	1930.3	1925.4	1927.8	1927.8
7.5°	1886.0	1886.0	1886.0	1881.1	1881.1
10°	1827.0	1824.5	1824.5	1824.5	1824.5
12.5°	1753.2	1755.7	1753.2	1755.7	1753.2
15°	1669.6	1669.6	1664.7	1667.2	1672.1
17.5°	1581.1	1578.6	1573.7	1571.3	1573.7
20°	1482.7	1475.4	1468.0	1472.9	1472.9
22.5°	1372.1	1369.6	1362.3	1364.7	1367.2
25°	1234.4	1249.1	1251.6	1246.7	1229.5
27.5°	1094.2	1111.4	1138.5	1111.4	1094.2
30°	951.6	978.7	1020.5	978.7	951.6
32.5°	796.7	845.9	892.6	848.3	794.2
35°	641.8	705.7	754.9	703.3	636.9
37.5°	504.1	565.6	639.3	568.0	501.6
40°	391.0	447.5	533.6	447.5	386.1
42.5°	304.9	354.1	430.3	351.6	304.9
45°	241.0	277.9	332.0	277.9	243.4
47.5°	196.7	223.8	250.8	223.8	196.7
50°	157.4	177.0	191.8	177.0	154.9
52.5°	122.9	140.2	150.0	140.2	122.9
55°	93.4	108.2	120.5	108.2	93.4
57.5°	83.6	86.1	98.4	86.1	83.6
60°	73.8	73.8	78.7	73.8	73.8
62.5°	63.9	66.4	66.4	66.4	63.9
65°	56.6	56.6	56.6	56.6	56.6
67.5°	46.7	49.2	49.2	49.2	46.7
70°	41.8	41.8	41.8	41.8	41.8
72.5°	34.4	34.4	34.4	34.4	34.4
75°	27.0	27.0	27.0	27.0	27.0
77.5°	22.1	22.1	22.1	22.1	22.1
80°	17.2	17.2	17.2	17.2	17.2
82.5°	12.3	12.3	12.3	12.3	12.3
85°	7.4	7.4	7.4	7.4	7.4
87.5°	2.5	2.5	2.5	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)