

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: P241906

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-55)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-41SNDH-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2001.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.91
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

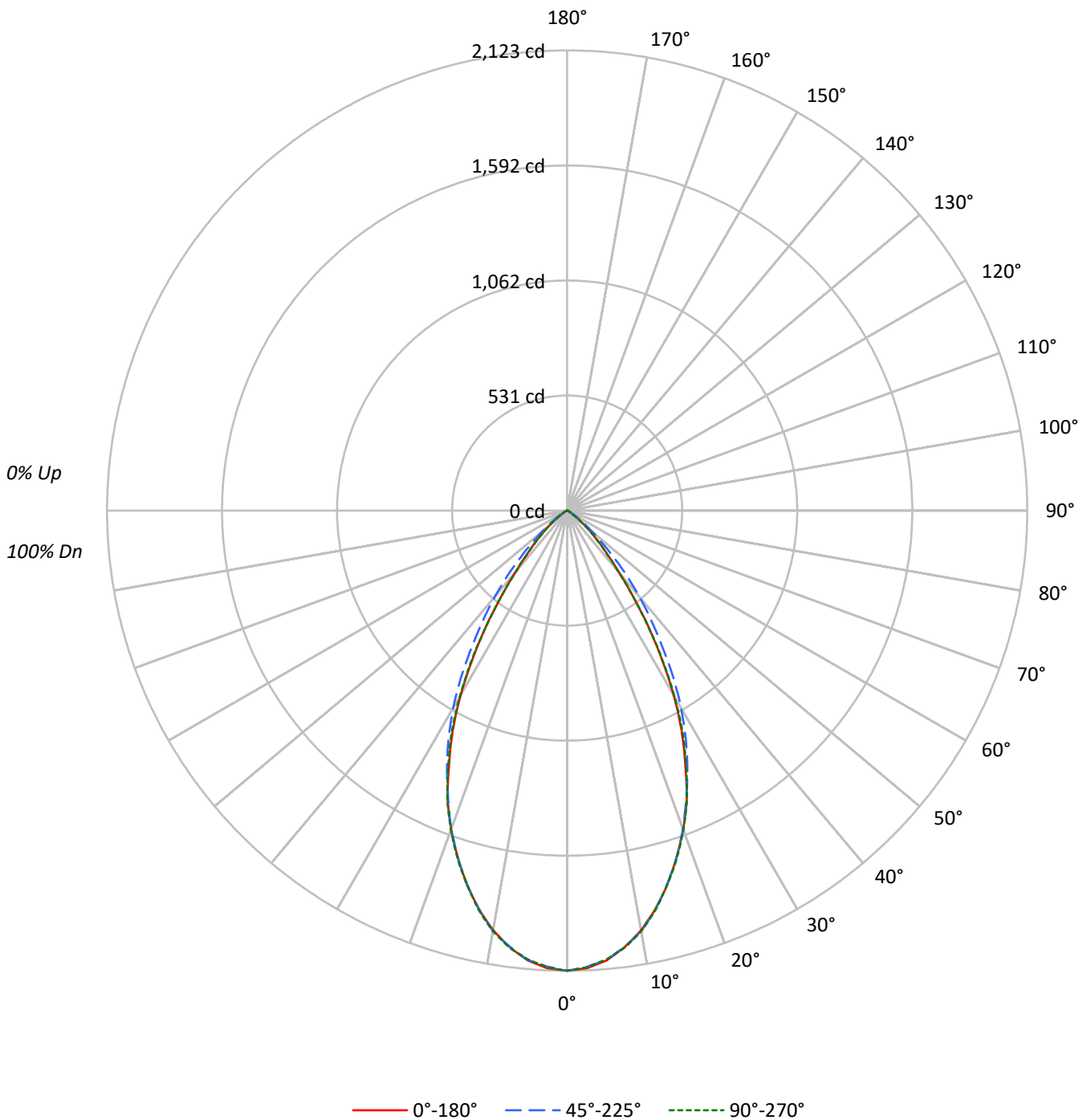
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	96	95	93		
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	91	89	87	86		
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	85	82	81	79		
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	77	74	73	73		
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73	73	73	71	67	64	63		
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	65	61	57	54		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63	63	63	61	57	53	51		
7	81	72	65	61	80	71	65	61	70	64	60	68	63	60	67	63	60	58	58	58	56	52	49	48		
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54	54	54	52	48	44	41		
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	50	50	50	48	44	40	37		
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47	47	47	45	41	37	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	162486	162486	162486
5°	160087	159895	159711
10°	152775	153156	153156
15°	141545	141347	141545
20°	127486	127283	127682
25°	108940	110807	109565
30°	86864	92945	87510
35°	60840	71399	60607
40°	37070	51799	36821
45°	22343	32442	21812
50°	12575	17552	12289
55°	4591	9181	4591
60°	3016	4516	3016
65°	1775	2662	1775
70°	1097	1656	1097
75°	739	1449	739
80°	1102	1102	1102
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	9.7
10°-20°	498.4	24.9
20°-30°	594.4	29.7
30°-40°	442.8	22.1
40°-50°	198.4	9.9
50°-60°	54.0	2.7
60°-70°	13.1	0.7
70°-80°	4.3	0.2
80°-90°	0.7	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°	1287.8	64.4
0°-40°	1730.6	86.5
0°-60°	1982.9	99.1
0°-90°	2001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2001.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2123	2123	2123	2123	2123	
5°	2084	2076	2081	2079	2079	195
15°	1786	1784	1784	1789	1786	498
25°	1290	1310	1312	1312	1297	588
35°	651	710	764	710	649	407
45°	206	241	300	241	202	166
55°	34	54	69	54	34	41
65°	10	12	15	12	10	11
75°	2	5	5	5	2	4
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°	2122.8	2122.8	2122.8	2122.8	2122.8
2.5°	2113.0	2108.1	2105.6	2105.6	2108.1
5°	2083.5	2076.1	2081.0	2078.6	2078.6
7.5°	2031.9	2031.9	2029.4	2034.3	2034.3
10°	1965.6	1968.0	1970.5	1968.0	1970.5
12.5°	1882.0	1879.6	1884.5	1886.9	1886.9
15°	1786.2	1783.7	1783.7	1788.7	1786.2
17.5°	1678.1	1680.5	1678.1	1680.5	1683.0
20°	1565.1	1565.1	1562.6	1565.1	1567.5
22.5°	1442.2	1442.2	1434.9	1439.8	1444.7
25°	1289.9	1309.6	1312.0	1312.0	1297.3
27.5°	1142.5	1157.2	1184.2	1162.1	1154.8
30°	982.8	1012.3	1051.6	1017.2	990.1
32.5°	813.2	867.3	909.1	862.4	820.6
35°	651.1	710.1	764.1	710.1	648.6
37.5°	498.8	562.6	636.3	565.1	498.8
40°	371.0	432.4	518.4	430.0	368.5
42.5°	275.2	326.8	405.4	324.3	275.2
45°	206.4	240.8	299.7	240.8	201.5
47.5°	149.9	179.4	213.8	176.9	149.9
50°	105.6	127.8	147.4	127.8	103.2
52.5°	66.3	86.0	100.7	86.0	66.3
55°	34.4	54.1	68.8	54.1	34.4
57.5°	24.6	29.5	44.2	29.5	24.6
60°	19.7	22.1	29.5	22.1	19.7
62.5°	14.7	17.2	17.2	17.2	14.7
65°	9.8	12.3	14.7	12.3	9.8
67.5°	7.4	9.8	9.8	9.8	7.4
70°	4.9	7.4	7.4	7.4	4.9
72.5°	4.9	4.9	4.9	4.9	4.9
75°	2.5	4.9	4.9	4.9	2.5
77.5°	2.5	2.5	2.5	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5
82.5°	0.0	2.5	2.5	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)