

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: P241916

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241916
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-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2113.6 lumens
Efficiency: N/A
Efficacy: 84.5 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

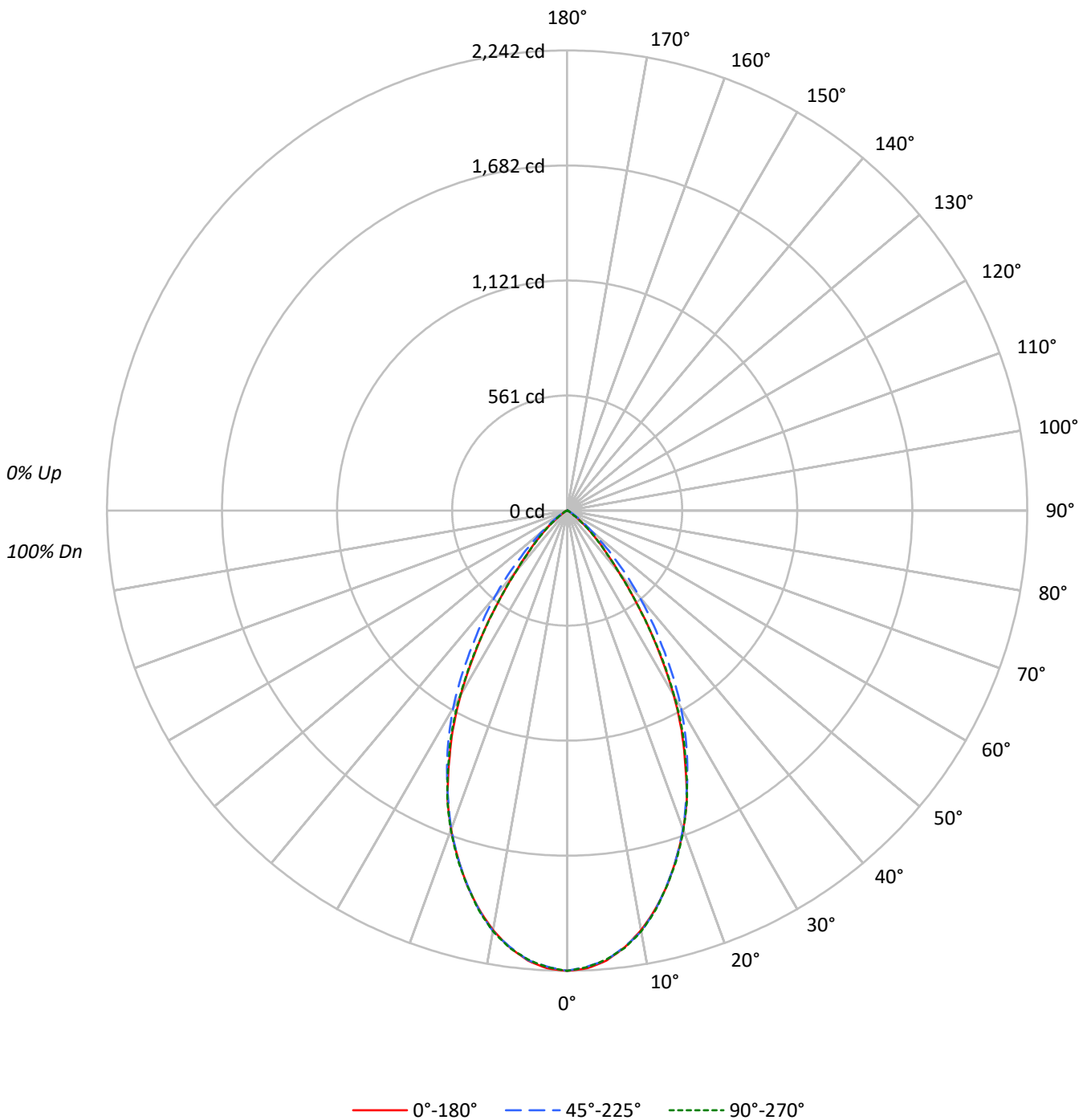
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60	68	63	60	67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	171633	171633	171633
5°	169100	168900	168701
10°	161371	161775	161775
15°	149509	149303	149509
20°	134663	134451	134874
25°	115072	117048	115730
30°	91752	98178	92442
35°	64260	75417	64017
40°	39159	54716	38899
45°	23598	34272	23035
50°	13289	18541	12980
55°	4844	9702	4844
60°	3184	4761	3184
65°	1884	2825	1884
70°	1164	1746	1164
75°	769	1538	769
80°	1146	1146	1146
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	9.7
10°-20°	526.5	24.9
20°-30°	627.8	29.7
30°-40°	467.8	22.1
40°-50°	209.5	9.9
50°-60°	57.0	2.7
60°-70°	13.8	0.7
70°-80°	4.5	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°	1360.2	64.4
0°-40°	1828.0	86.5
0°-60°	2094.5	99.1
0°-90°	2113.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2113.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2242	2242	2242	2242	2242	
5°	2201	2193	2198	2196	2196	206
15°	1887	1884	1884	1889	1887	526
25°	1362	1383	1386	1386	1370	621
35°	688	750	807	750	685	430
45°	218	254	317	254	213	175
55°	36	57	73	57	36	44
65°	10	13	16	13	10	12
75°	3	5	5	5	3	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°	2242.3	2242.3	2242.3	2242.3	2242.3
2.5°	2231.9	2226.7	2224.1	2224.1	2226.7
5°	2200.8	2193.0	2198.2	2195.6	2195.6
7.5°	2146.3	2146.3	2143.7	2148.9	2148.9
10°	2076.2	2078.8	2081.4	2078.8	2081.4
12.5°	1988.0	1985.4	1990.6	1993.1	1993.1
15°	1886.7	1884.1	1884.1	1889.3	1886.7
17.5°	1772.6	1775.1	1772.6	1775.1	1777.7
20°	1653.2	1653.2	1650.6	1653.2	1655.8
22.5°	1523.4	1523.4	1515.6	1520.8	1526.0
25°	1362.5	1383.3	1385.9	1385.9	1370.3
27.5°	1206.8	1222.4	1250.9	1227.5	1219.8
30°	1038.1	1069.2	1110.8	1074.4	1045.9
32.5°	859.0	916.1	960.2	910.9	866.8
35°	687.7	750.0	807.1	750.0	685.1
37.5°	526.8	594.3	672.2	596.9	526.8
40°	391.9	456.8	547.6	454.2	389.3
42.5°	290.7	345.2	428.2	342.6	290.7
45°	218.0	254.3	316.6	254.3	212.8
47.5°	158.3	189.5	225.8	186.9	158.3
50°	111.6	135.0	155.7	135.0	109.0
52.5°	70.1	90.8	106.4	90.8	70.1
55°	36.3	57.1	72.7	57.1	36.3
57.5°	26.0	31.1	46.7	31.1	26.0
60°	20.8	23.4	31.1	23.4	20.8
62.5°	15.6	18.2	18.2	18.2	15.6
65°	10.4	13.0	15.6	13.0	10.4
67.5°	7.8	10.4	10.4	10.4	7.8
70°	5.2	7.8	7.8	7.8	5.2
72.5°	5.2	5.2	5.2	5.2	5.2
75°	2.6	5.2	5.2	5.2	2.6
77.5°	2.6	2.6	2.6	2.6	2.6
80°	2.6	2.6	2.6	2.6	2.6
82.5°	0.0	2.6	2.6	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)