

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: P241911

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241911
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
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

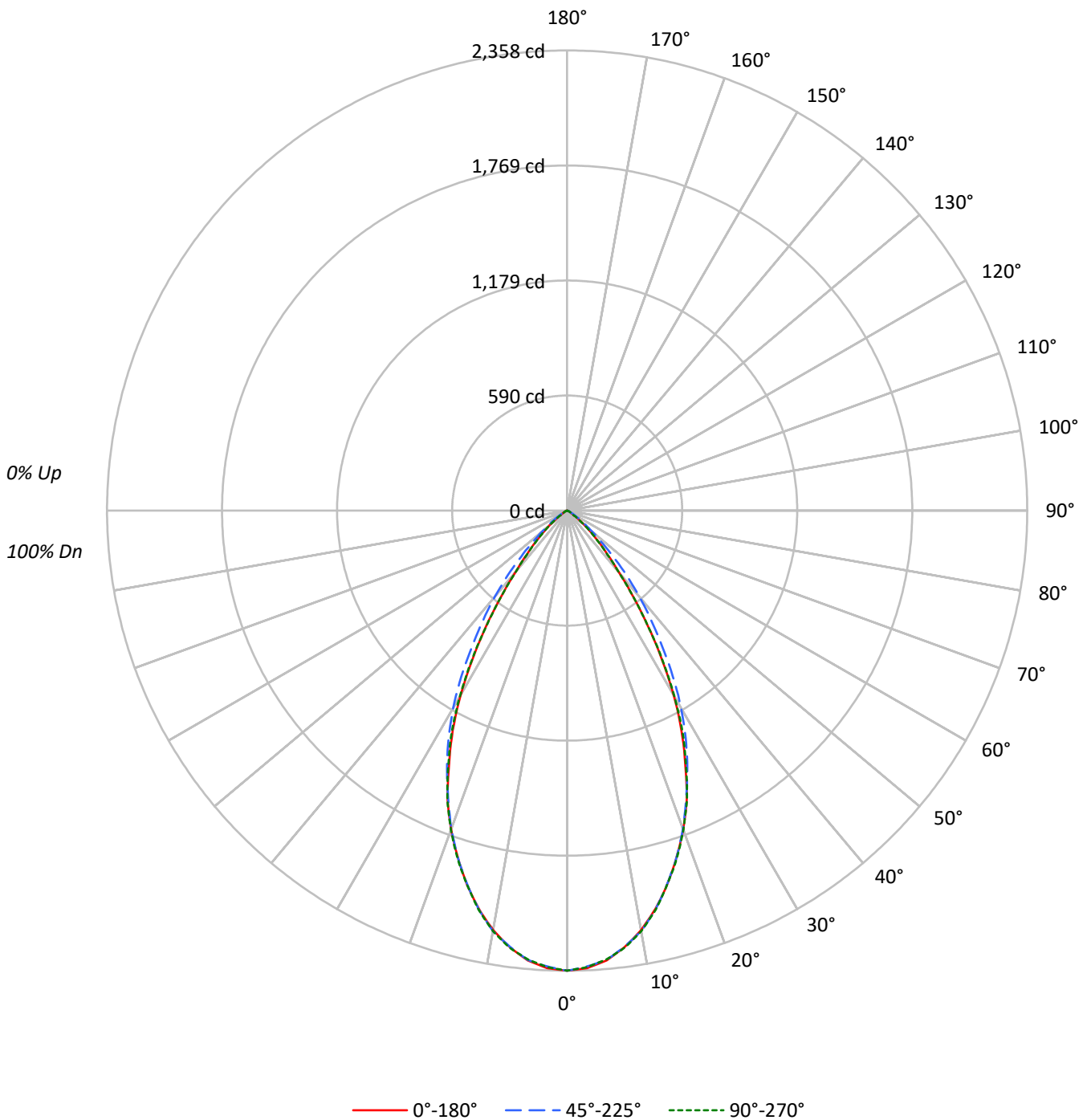
Lumens per Lamp: N/A
Luminaire Lumens: 2222.3 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.91
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	180459	180459	180459
5°	177798	177583	177375
10°	169672	170092	170092
15°	157203	156989	157203
20°	141586	141367	141806
25°	120992	123061	121685
30°	96472	103224	97197
35°	67568	79295	67316
40°	41167	57534	40897
45°	24811	36036	24226
50°	13968	19493	13647
55°	5098	10196	5098
60°	3337	5006	3337
65°	1974	2970	1974
70°	1231	1835	1231
75°	799	1627	799
80°	1190	1190	1190
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.5	9.7
10°-20°	553.6	24.9
20°-30°	660.1	29.7
30°-40°	491.8	22.1
40°-50°	220.3	9.9
50°-60°	59.9	2.7
60°-70°	14.5	0.7
70°-80°	4.8	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°	1430.2	64.4
0°-40°	1922.0	86.5
0°-60°	2202.3	99.1
0°-90°	2222.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2222.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2358	2358	2358	2358	2358	
5°	2314	2306	2311	2308	2308	217
15°	1984	1981	1981	1986	1984	553
25°	1433	1454	1457	1457	1441	653
35°	723	789	849	789	720	452
45°	229	267	333	267	224	184
55°	38	60	76	60	38	46
65°	11	14	16	14	11	12
75°	3	6	6	6	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°	2357.6	2357.6	2357.6	2357.6	2357.6
2.5°	2346.7	2341.3	2338.5	2338.5	2341.3
5°	2314.0	2305.8	2311.2	2308.5	2308.5
7.5°	2256.7	2256.7	2253.9	2259.4	2259.4
10°	2183.0	2185.7	2188.4	2185.7	2188.4
12.5°	2090.2	2087.5	2092.9	2095.7	2095.7
15°	1983.8	1981.1	1981.1	1986.5	1983.8
17.5°	1863.7	1866.5	1863.7	1866.5	1869.2
20°	1738.2	1738.2	1735.5	1738.2	1740.9
22.5°	1601.8	1601.8	1593.6	1599.0	1604.5
25°	1432.6	1454.4	1457.1	1457.1	1440.8
27.5°	1268.9	1285.2	1315.2	1290.7	1282.5
30°	1091.5	1124.2	1167.9	1129.7	1099.7
32.5°	903.2	963.2	1009.6	957.8	911.4
35°	723.1	788.6	848.6	788.6	720.4
37.5°	553.9	624.9	706.7	627.6	553.9
40°	412.0	480.3	575.8	477.5	409.3
42.5°	305.6	362.9	450.2	360.2	305.6
45°	229.2	267.4	332.9	267.4	223.8
47.5°	166.5	199.2	237.4	196.5	166.5
50°	117.3	141.9	163.7	141.9	114.6
52.5°	73.7	95.5	111.9	95.5	73.7
55°	38.2	60.0	76.4	60.0	38.2
57.5°	27.3	32.7	49.1	32.7	27.3
60°	21.8	24.6	32.7	24.6	21.8
62.5°	16.4	19.1	19.1	19.1	16.4
65°	10.9	13.6	16.4	13.6	10.9
67.5°	8.2	10.9	10.9	10.9	8.2
70°	5.5	8.2	8.2	8.2	5.5
72.5°	5.5	5.5	5.5	5.5	5.5
75°	2.7	5.5	5.5	5.5	2.7
77.5°	2.7	2.7	2.7	2.7	2.7
80°	2.7	2.7	2.7	2.7	2.7
82.5°	0.0	2.7	2.7	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)