

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: P241926

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-56)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-41SMDH
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM 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: 2429.8 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.95 / 0.98
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

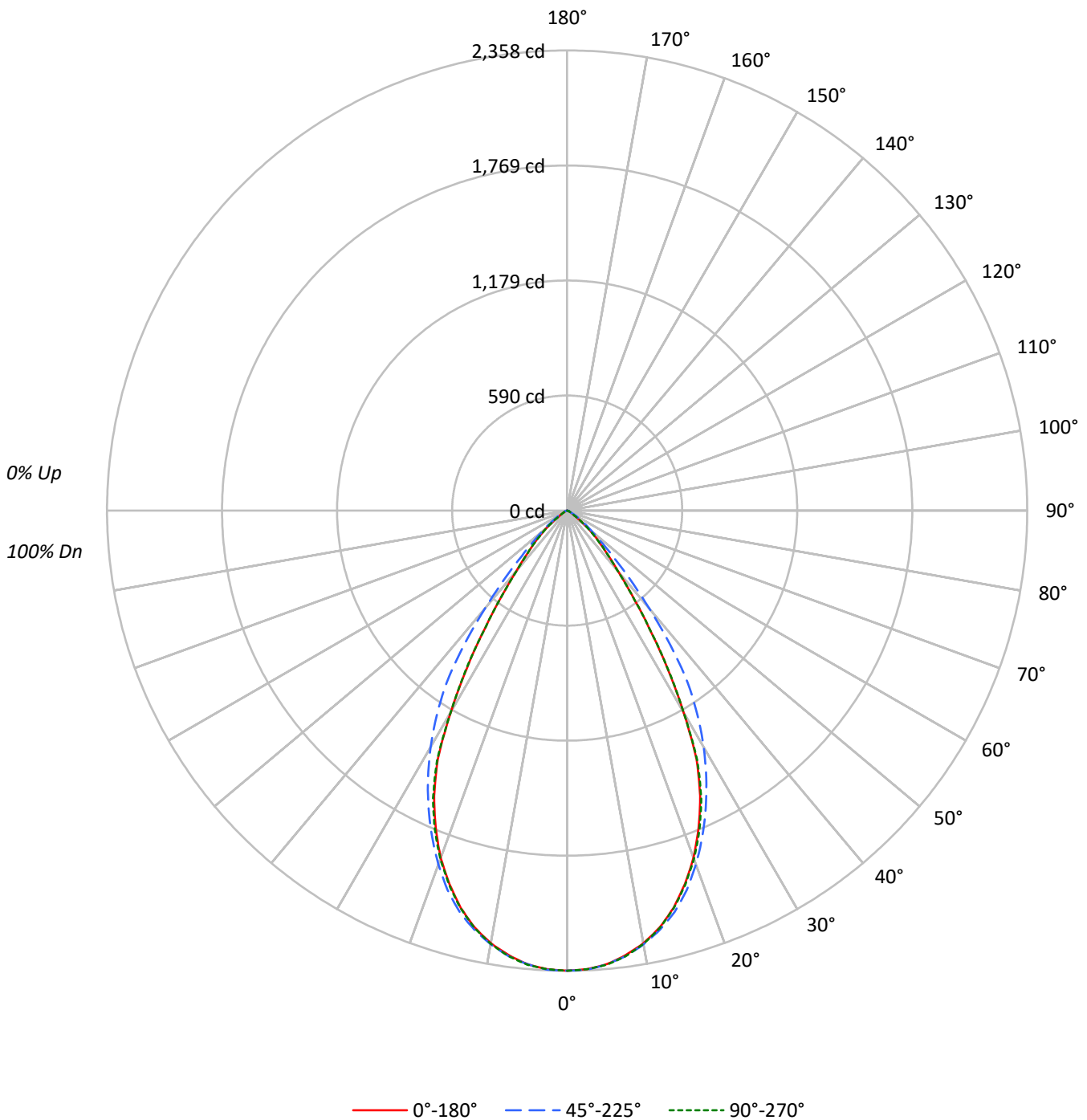
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79					79			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73					73			
5	90	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	65	84	75	69	65	74	68	65	72	68	64	71	67	64	62					62			
7	81	71	65	60	80	71	64	60	69	64	60	68	63	60	67	62	59	58					58			
8	77	67	60	56	76	66	60	56	65	60	56	64	59	55	63	59	55	54					54			
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50					50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47					47			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	180482	180482	180482
5°	179281	179281	179488
10°	174988	175416	175206
15°	166950	168678	167164
20°	154269	157161	154717
25°	136211	141979	137368
30°	105408	123739	105646
35°	67830	100731	67830
40°	40358	65168	40088
45°	26001	35451	26001
50°	15921	19827	15600
55°	6552	11290	6552
60°	4179	5848	4179
65°	2463	3459	2463
70°	1835	2439	1835
75°	1627	1627	799
80°	1190	1190	1190
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.3	9.1
10°-20°	591.5	24.3
20°-30°	749.8	30.9
30°-40°	547.8	22.5
40°-50°	227.6	9.4
50°-60°	68.7	2.8
60°-70°	17.5	0.7
70°-80°	5.6	0.2
80°-90°	0.9	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°	1561.6	64.3
0°-40°	2109.4	86.8
0°-60°	2405.7	99.0
0°-90°	2429.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2429.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2358	2358	2358	2358	2358	
5°	2333	2333	2333	2333	2336	220
15°	2107	2118	2129	2118	2110	588
25°	1613	1651	1681	1662	1626	726
35°	726	851	1078	851	726	465
45°	240	276	328	273	240	192
55°	49	68	85	68	49	55
65°	14	16	19	16	14	15
75°	6	6	6	6	3	5
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°	2357.9	2357.9	2357.9	2357.9	2357.9
2.5°	2352.4	2352.4	2355.1	2352.4	2352.4
5°	2333.3	2333.3	2333.3	2333.3	2336.0
7.5°	2297.8	2300.6	2303.3	2300.6	2303.3
10°	2251.4	2254.2	2256.9	2256.9	2254.2
12.5°	2188.7	2194.1	2199.6	2194.1	2191.4
15°	2106.8	2117.7	2128.6	2117.7	2109.5
17.5°	2005.8	2016.7	2038.6	2019.5	2011.3
20°	1893.9	1910.3	1929.4	1913.0	1899.4
22.5°	1760.2	1790.2	1809.3	1790.2	1771.1
25°	1612.8	1651.0	1681.1	1662.0	1626.5
27.5°	1435.5	1501.0	1544.6	1509.1	1443.6
30°	1192.6	1307.2	1400.0	1318.1	1195.3
32.5°	955.2	1075.2	1244.4	1080.7	960.6
35°	725.9	851.4	1078.0	851.4	725.9
37.5°	543.1	655.0	870.6	646.8	543.1
40°	403.9	488.5	652.2	483.0	401.2
42.5°	311.1	363.0	472.1	360.2	308.4
45°	240.2	275.6	327.5	272.9	240.2
47.5°	185.6	210.1	232.0	210.1	182.8
50°	133.7	158.3	166.5	158.3	131.0
52.5°	84.6	111.9	120.1	109.2	87.3
55°	49.1	68.2	84.6	68.2	49.1
57.5°	35.5	40.9	60.0	40.9	35.5
60°	27.3	30.0	38.2	30.0	27.3
62.5°	19.1	21.8	24.6	21.8	19.1
65°	13.6	16.4	19.1	16.4	13.6
67.5°	10.9	13.6	13.6	13.6	10.9
70°	8.2	8.2	10.9	8.2	8.2
72.5°	5.5	5.5	8.2	8.2	5.5
75°	5.5	5.5	5.5	5.5	2.7
77.5°	2.7	2.7	5.5	2.7	2.7
80°	2.7	2.7	2.7	2.7	2.7
82.5°	0.0	2.7	2.7	2.7	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)