

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: P241881

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-41SMDMW
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2495.3 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 1.02
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

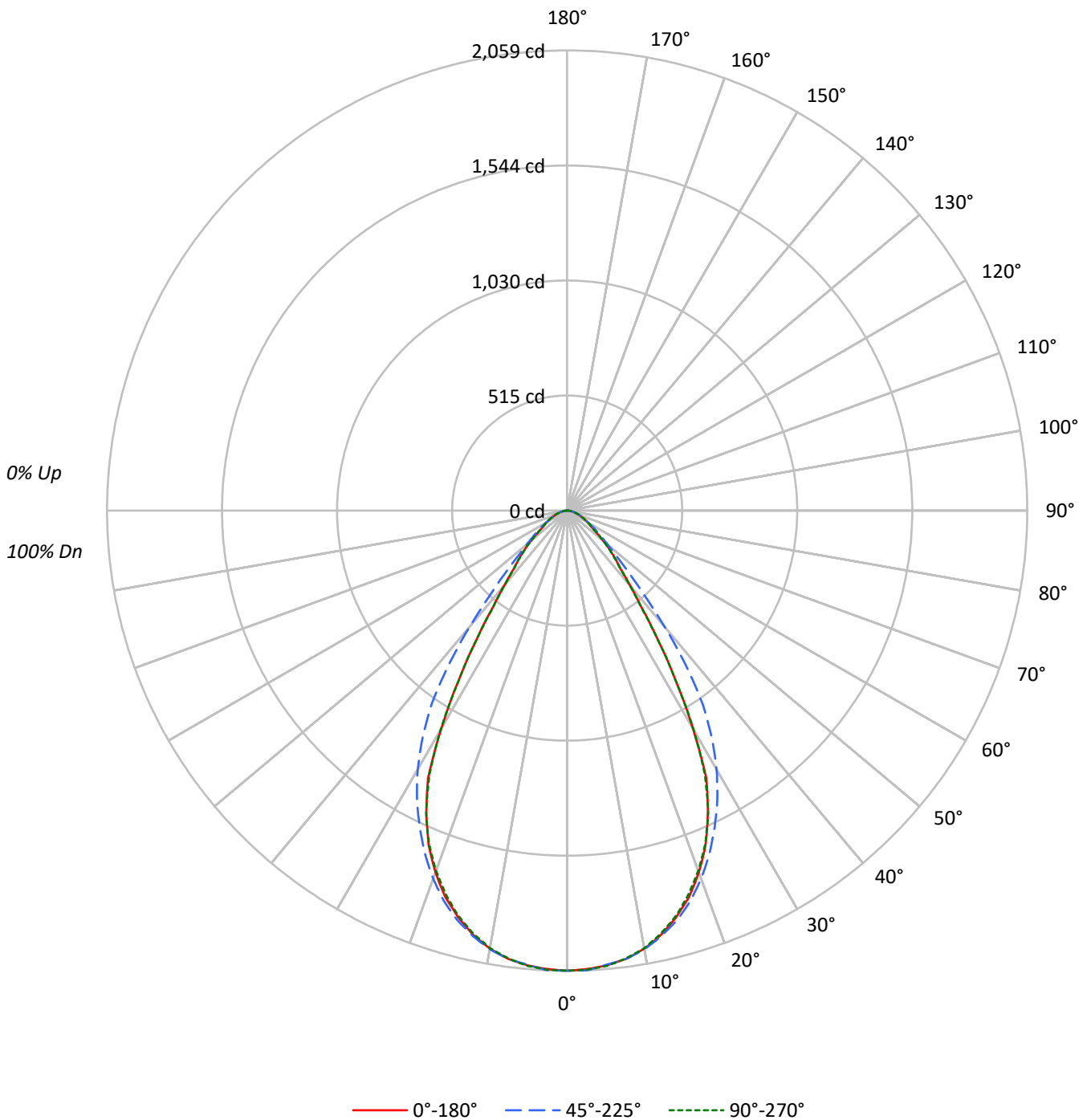
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91				
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82				
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	74				
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	77	73	70	68				
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62				
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57				
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	62	58	54	53				
8	73	63	56	51	72	62	55	51	61	55	51	60	54	51	59	54	50	49				
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45				
10	66	55	48	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	157580	157580	157580
5°	156922	156714	157129
10°	154702	154920	154492
15°	149287	150373	148859
20°	140340	142784	139672
25°	125907	131904	126135
30°	99424	118250	100149
35°	66335	98731	66335
40°	43655	67656	43106
45°	32810	41080	32507
50°	25364	27960	25031
55°	18576	21499	18576
60°	16304	17130	16304
65°	14344	14833	14344
70°	12219	12824	12824
75°	11297	11297	11297
80°	9609	9609	9609
85°	7202	9573	7202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	7.7
10°-20°	529.0	21.2
20°-30°	694.7	27.8
30°-40°	535.8	21.5
40°-50°	269.3	10.8
50°-60°	141.5	5.7
60°-70°	79.9	3.2
70°-80°	40.6	1.6
80°-90°	11.2	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°	1417.1	56.8
0°-40°	1952.8	78.3
0°-60°	2363.6	94.7
0°-90°	2495.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2495.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2059	2059	2059	2059	2059	
5°	2042	2045	2040	2045	2045	193
15°	1884	1889	1898	1887	1878	527
25°	1491	1534	1562	1532	1494	673
35°	710	830	1057	833	710	455
45°	303	333	380	330	300	238
55°	139	153	161	153	139	132
65°	79	79	82	79	79	79
75°	38	38	38	38	38	40
85°	8	8	11	8	8	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2058.7	2058.7	2058.7	2058.7	2058.7
2.5°	2053.2	2056.0	2058.7	2056.0	2056.0
5°	2042.3	2045.0	2039.6	2045.0	2045.0
7.5°	2023.2	2020.5	2023.2	2020.5	2020.5
10°	1990.4	1990.4	1993.2	1987.7	1987.7
12.5°	1944.0	1946.7	1949.5	1946.7	1938.6
15°	1883.9	1889.4	1897.6	1886.7	1878.5
17.5°	1813.0	1818.4	1832.1	1815.7	1802.0
20°	1722.9	1736.5	1752.9	1736.5	1714.7
22.5°	1619.1	1646.4	1662.8	1640.9	1613.6
25°	1490.8	1534.5	1561.8	1531.7	1493.5
27.5°	1348.8	1403.4	1455.3	1408.9	1335.1
30°	1124.9	1239.6	1337.9	1245.0	1133.1
32.5°	909.2	1034.8	1204.1	1034.8	909.2
35°	709.9	830.0	1056.6	832.8	709.9
37.5°	548.8	652.6	871.0	652.6	543.3
40°	436.9	505.1	677.1	502.4	431.4
42.5°	354.9	404.1	502.4	401.4	349.5
45°	303.1	333.1	379.5	330.4	300.3
47.5°	256.7	281.2	289.4	278.5	253.9
50°	213.0	237.5	234.8	234.8	210.2
52.5°	172.0	191.1	193.9	191.1	172.0
55°	139.2	152.9	161.1	152.9	139.2
57.5°	120.1	125.6	136.5	125.6	122.9
60°	106.5	109.2	111.9	109.2	106.5
62.5°	92.8	92.8	92.8	92.8	92.8
65°	79.2	79.2	81.9	79.2	79.2
67.5°	65.5	68.3	68.3	68.3	65.5
70°	54.6	57.3	57.3	57.3	57.3
72.5°	46.4	46.4	46.4	46.4	46.4
75°	38.2	38.2	38.2	38.2	38.2
77.5°	30.0	30.0	30.0	30.0	30.0
80°	21.8	21.8	21.8	21.8	21.8
82.5°	13.7	16.4	16.4	16.4	13.7
85°	8.2	8.2	10.9	8.2	8.2
87.5°	5.5	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)