

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: P241681

Luminaire Tested: **PRS430D010-S4M24-44SNDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-40)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SNDMW-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2303.3 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.94
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

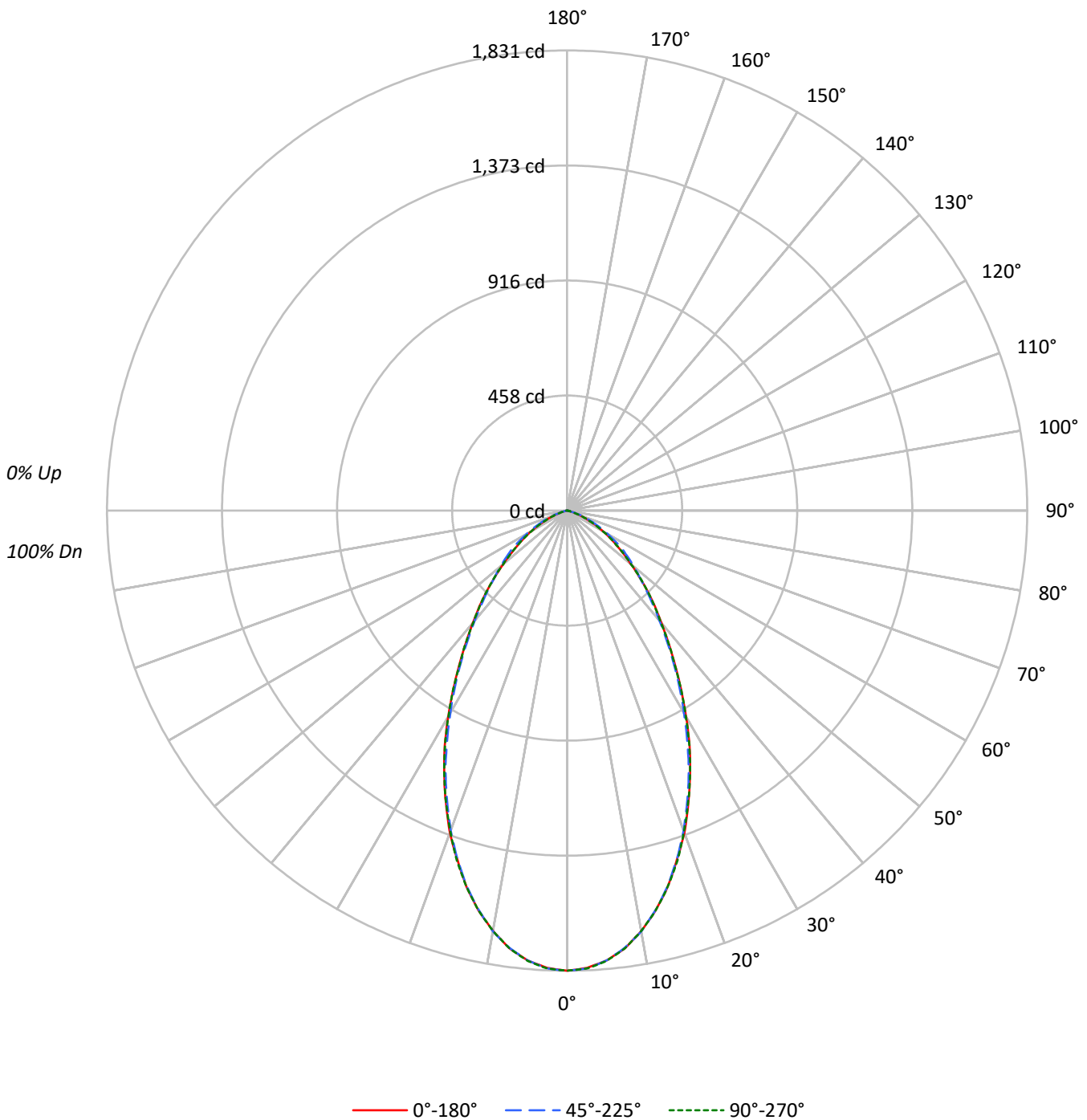
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72					72			
4	91	82	75	69	89	80	74	69	78	73	68	76	71	67	74	70	66	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45					45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	140143	140143	140143
5°	138035	138035	138228
10°	131991	132186	131991
15°	122693	122495	122693
20°	111106	110307	110707
25°	97758	96728	97758
30°	83630	82109	83409
35°	69811	68895	69586
40°	58204	57214	57954
45°	48679	47889	48950
50°	39511	41261	39511
55°	31814	35751	32135
60°	25213	28214	25213
65°	18257	21372	18257
70°	11011	13741	11011
75°	3638	5826	3638
80°	3262	3262	3262
85°	2196	2196	2196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	7.3
10°-20°	431.6	18.7
20°-30°	526.8	22.9
30°-40°	465.6	20.2
40°-50°	347.4	15.1
50°-60°	225.3	9.8
60°-70°	111.0	4.8
70°-80°	24.1	1.0
80°-90°	3.0	0.1
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°	1126.8	48.9
0°-40°	1592.4	69.1
0°-60°	2165.2	94.0
0°-90°	2303.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2303.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1796	1796	1796	1799	1799	168
15°	1548	1548	1546	1548	1548	432
25°	1158	1155	1145	1153	1158	530
35°	747	742	737	742	745	469
45°	450	450	442	447	452	348
55°	238	246	268	248	241	216
65°	101	113	118	111	101	102
75°	12	15	20	15	12	21
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1830.9	1830.9	1830.9	1830.9	1830.9
2.5°	1821.1	1821.1	1823.6	1823.6	1823.6
5°	1796.5	1796.5	1796.5	1799.0	1799.0
7.5°	1757.2	1754.7	1754.7	1757.2	1757.2
10°	1698.2	1698.2	1700.7	1695.8	1698.2
12.5°	1629.4	1629.4	1626.9	1629.4	1629.4
15°	1548.3	1548.3	1545.8	1548.3	1548.3
17.5°	1454.9	1454.9	1452.5	1457.4	1459.8
20°	1364.0	1361.5	1354.2	1359.1	1359.1
22.5°	1260.8	1258.3	1248.5	1255.8	1258.3
25°	1157.5	1155.1	1145.3	1152.6	1157.5
27.5°	1054.3	1044.5	1034.7	1046.9	1051.9
30°	946.2	938.8	929.0	938.8	943.7
32.5°	843.0	840.5	830.7	838.0	843.0
35°	747.1	742.2	737.3	742.2	744.7
37.5°	661.1	656.2	648.8	656.2	661.1
40°	582.5	577.5	572.6	575.1	580.0
42.5°	516.1	511.2	503.8	508.7	513.6
45°	449.7	449.7	442.4	447.3	452.2
47.5°	388.3	393.2	390.8	393.2	390.8
50°	331.8	341.6	346.5	341.6	331.8
52.5°	282.6	290.0	304.7	290.0	282.6
55°	238.4	245.8	267.9	248.2	240.8
57.5°	201.5	208.9	226.1	208.9	201.5
60°	164.7	174.5	184.3	174.5	164.7
62.5°	132.7	142.5	149.9	142.5	130.3
65°	100.8	113.1	118.0	110.6	100.8
67.5°	73.7	83.6	88.5	83.6	73.7
70°	49.2	59.0	61.4	59.0	49.2
72.5°	29.5	36.9	36.9	34.4	29.5
75°	12.3	14.7	19.7	14.7	12.3
77.5°	9.8	9.8	9.8	9.8	9.8
80°	7.4	7.4	7.4	7.4	7.4
82.5°	4.9	4.9	4.9	4.9	4.9
85°	2.5	2.5	2.5	2.5	2.5
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)