

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: P241696

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-41)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SMDMW-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM 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: 2576.2 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.08
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

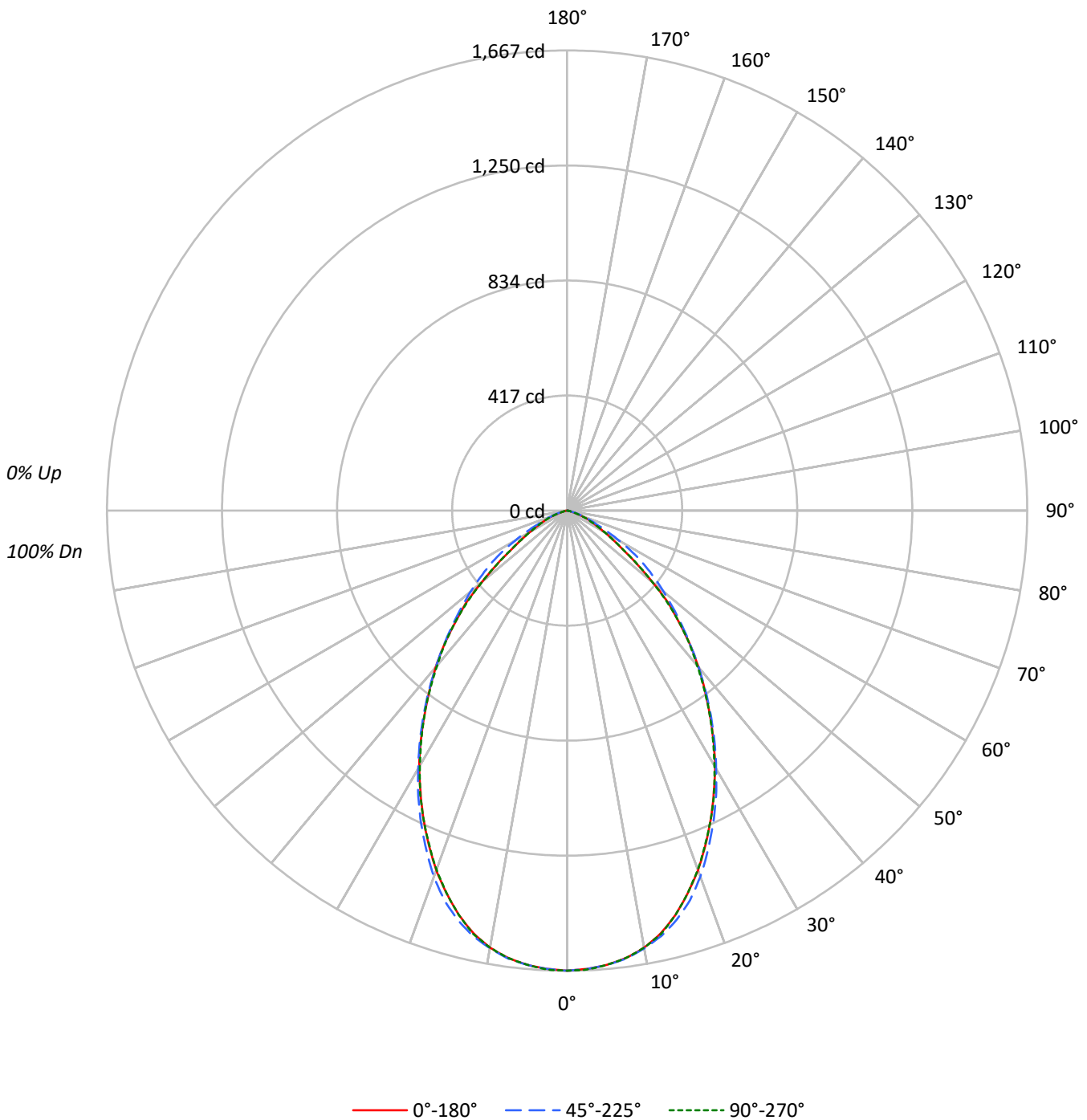
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80					80			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71					71			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57					57			
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	47	41	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	127583	127583	127583
5°	126940	126940	126940
10°	124965	125159	124965
15°	120197	121560	120197
20°	112938	114942	112743
25°	104025	105680	104025
30°	94740	95385	94298
35°	84079	84771	84079
40°	73941	73941	73202
45°	62005	63607	62275
50°	48013	54158	48013
55°	33135	45279	33469
60°	23713	33495	23713
65°	17804	21372	17369
70°	11548	13764	12107
75°	4377	7275	4377
80°	3262	4320	3262
85°	2196	2196	2196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	6.1
10°-20°	427.0	16.6
20°-30°	570.4	22.1
30°-40°	566.5	22.0
40°-50°	450.6	17.5
50°-60°	263.2	10.2
60°-70°	110.9	4.3
70°-80°	27.2	1.1
80°-90°	3.9	0.2
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°	1153.9	44.8
0°-40°	1720.3	66.8
0°-60°	2434.1	94.5
0°-90°	2576.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2576.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1667	1667	1667	1667	1667	
5°	1652	1652	1652	1652	1652	156
15°	1517	1527	1534	1527	1517	424
25°	1232	1249	1251	1246	1232	565
35°	900	914	907	910	900	563
45°	573	588	588	588	575	442
55°	248	283	339	283	251	232
65°	98	108	118	108	96	99
75°	15	17	25	20	15	23
85°	2	2	2	2	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1666.8	1666.8	1666.8	1666.8	1666.8
2.5°	1661.9	1661.9	1661.9	1661.9	1664.3
5°	1652.1	1652.1	1652.1	1652.1	1652.1
7.5°	1634.8	1634.8	1637.3	1637.3	1634.8
10°	1607.8	1607.8	1610.3	1610.3	1607.8
12.5°	1568.5	1573.4	1578.3	1573.4	1570.9
15°	1516.8	1526.7	1534.0	1526.7	1516.8
17.5°	1452.9	1465.2	1480.0	1465.2	1452.9
20°	1386.5	1398.8	1411.1	1396.4	1384.1
22.5°	1310.3	1325.1	1332.5	1322.6	1307.9
25°	1231.7	1248.9	1251.3	1246.4	1231.7
27.5°	1150.5	1162.8	1167.7	1165.3	1153.0
30°	1071.9	1084.2	1079.2	1081.7	1066.9
32.5°	985.8	998.1	993.2	993.2	983.4
35°	899.8	914.5	907.2	909.6	899.8
37.5°	818.7	826.0	823.6	826.0	816.2
40°	740.0	744.9	740.0	744.9	732.6
42.5°	658.9	666.2	661.3	666.2	656.4
45°	572.8	587.6	587.6	587.6	575.3
47.5°	499.1	511.3	518.7	511.3	491.7
50°	403.2	440.1	454.8	437.6	403.2
52.5°	319.6	356.5	395.8	356.5	322.1
55°	248.3	282.7	339.3	282.7	250.8
57.5°	196.7	221.3	280.3	221.3	196.7
60°	154.9	174.5	218.8	174.5	154.9
62.5°	122.9	137.7	162.3	137.7	122.9
65°	98.3	108.2	118.0	108.2	95.9
67.5°	76.2	83.6	86.0	83.6	73.8
70°	51.6	61.5	61.5	61.5	54.1
72.5°	32.0	39.3	41.8	39.3	32.0
75°	14.8	17.2	24.6	19.7	14.8
77.5°	12.3	12.3	12.3	12.3	12.3
80°	7.4	9.8	9.8	9.8	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°	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)