

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: P241841

Luminaire Tested: **PRS430D010-S4M24-41SMDMB-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-50)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-41SMDMB-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1731.9 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.98
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

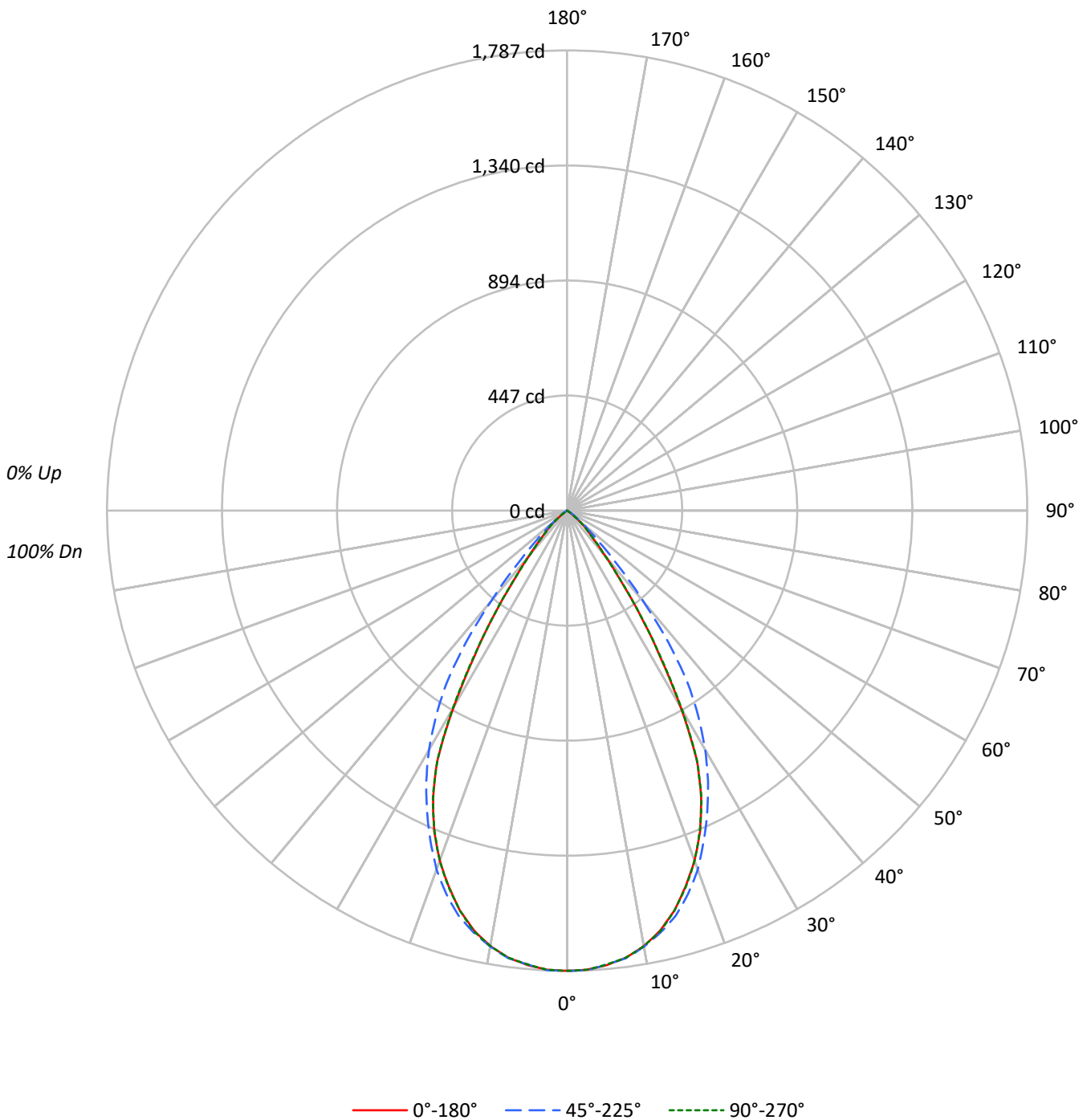
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P241841

CATALOG NUMBER: PRS430D010-S4M24-41SMDMB-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P241841

CATALOG NUMBER: PRS430D010-S4M24-41SMDMB-4000K

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	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87					87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80					80			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75					75			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69					69			
6	87	78	72	68	86	77	72	67	76	71	67	74	70	66	73	69	66	65					65			
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60					60			
8	78	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56					56			
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53					53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	136791	136791	136791
5°	136115	135915	135915
10°	133452	133655	133452
15°	127416	129064	127416
20°	117850	120815	117850
25°	103983	108813	104202
30°	78061	94819	78751
35°	45871	76211	46114
40°	22842	46203	22582
45°	12654	20805	12654
50°	6192	8657	6192
55°	347	3817	347
60°	398	796	398
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P241841

CATALOG NUMBER: PRS430D010-S4M24-41SMDMB-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	9.7
10°-20°	451.8	26.1
20°-30°	572.4	33.1
30°-40°	392.6	22.7
40°-50°	126.6	7.3
50°-60°	20.7	1.2
60°-70°	0.5	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	1191.6	68.8
0°-40°	1584.2	91.5
0°-60°	1731.4	100.0
0°-90°	1731.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1731.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1787	1787	1787	1787	1787	
5°	1772	1774	1769	1774	1769	167
15°	1608	1618	1629	1618	1608	449
25°	1231	1268	1288	1265	1234	552
35°	491	605	816	610	494	314
45°	117	146	192	143	117	96
55°	3	16	29	16	3	12
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P241841

CATALOG NUMBER: PRS430D010-S4M24-41SMDB-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1787.1	1787.1	1787.1	1787.1	1787.1
2.5°	1784.5	1784.5	1787.1	1784.5	1784.5
5°	1771.5	1774.1	1768.9	1774.1	1768.9
7.5°	1750.7	1748.1	1753.3	1748.1	1750.7
10°	1717.0	1714.4	1719.6	1714.4	1717.0
12.5°	1670.2	1672.8	1678.0	1675.4	1672.8
15°	1607.9	1618.3	1628.7	1618.3	1607.9
17.5°	1529.9	1542.9	1561.1	1542.9	1532.5
20°	1446.8	1459.8	1483.2	1462.4	1446.8
22.5°	1348.1	1374.1	1387.1	1371.5	1345.5
25°	1231.2	1267.6	1288.4	1265.0	1233.8
27.5°	1091.0	1148.1	1184.5	1148.1	1091.0
30°	883.2	994.9	1072.8	994.9	891.0
32.5°	670.2	800.0	948.1	794.8	678.0
35°	490.9	605.2	815.6	610.4	493.5
37.5°	335.1	436.4	644.2	431.2	337.7
40°	228.6	301.3	462.4	298.7	226.0
42.5°	161.0	205.2	306.5	205.2	158.4
45°	116.9	145.5	192.2	142.9	116.9
47.5°	85.7	106.5	119.5	103.9	83.1
50°	52.0	72.7	72.7	72.7	52.0
52.5°	23.4	41.6	44.2	41.6	23.4
55°	2.6	15.6	28.6	15.6	2.6
57.5°	2.6	2.6	15.6	2.6	2.6
60°	2.6	2.6	5.2	2.6	2.6
62.5°	0.0	0.0	2.6	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	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)