

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: P241826

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-49)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-41SNDMB-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW 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: 1625.5 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.89
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

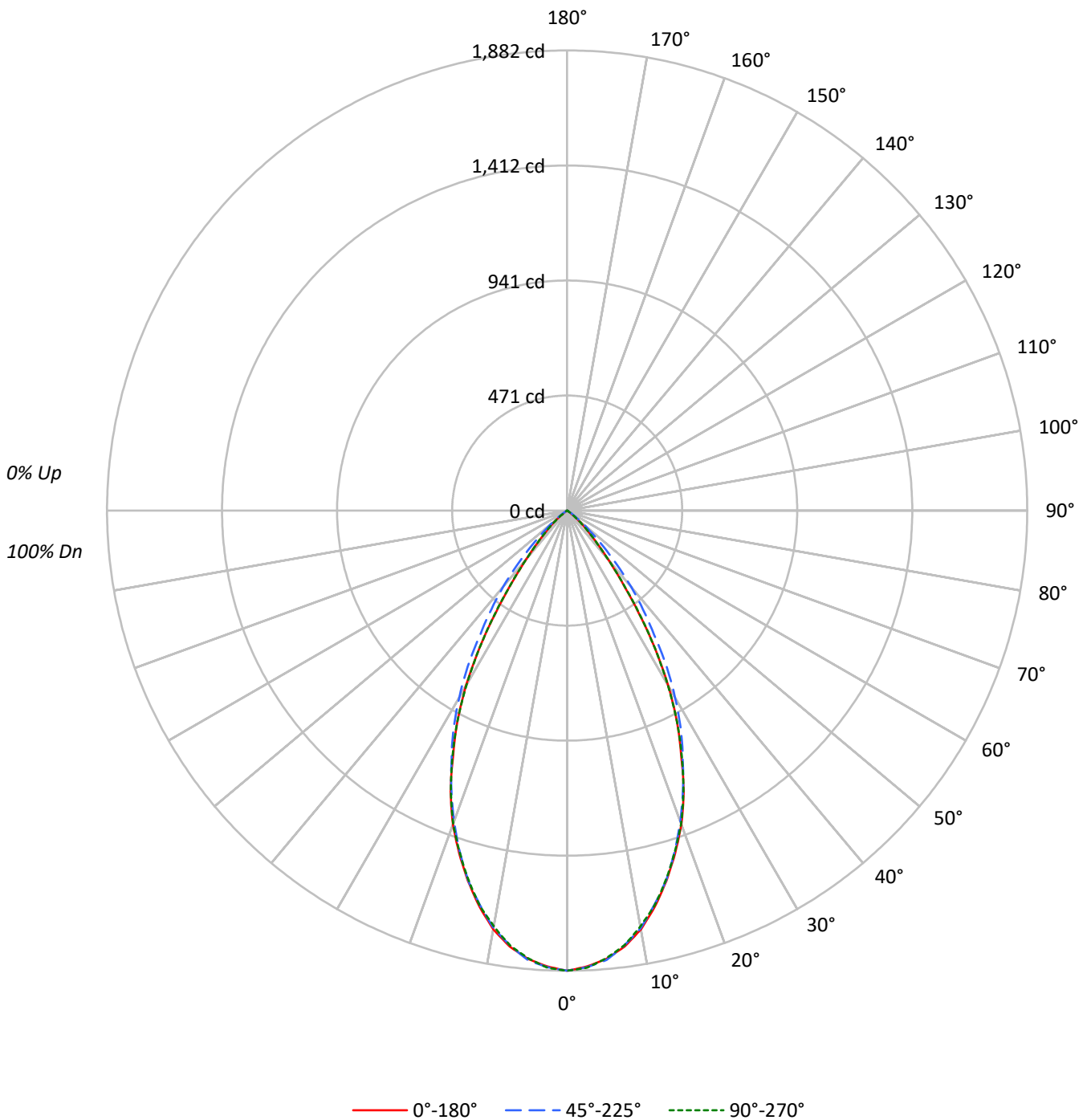
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P241826

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

Luminous Intensity Polar Plot





TEST NUMBER: P241826

CATALOG NUMBER: PRS430D010-S4M24-41SNDMB-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	105	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	95	106	101	98	94	98	95	92	95	93	90	92	90	88	87					87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81					81			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75					75			
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70					70			
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65					65			
7	83	74	67	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61					61			
8	79	69	63	59	78	69	63	59	67	62	59	66	62	58	65	61	58	57					57			
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53					53			
10	71	62	56	52	70	61	56	52	60	55	52	60	55	51	59	54	51	50					50			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	144039	144039	144039
5°	141393	141793	141193
10°	135162	134758	134152
15°	124230	124024	123818
20°	111203	110153	111000
25°	93164	94481	93822
30°	73183	77999	72723
35°	47534	57962	48020
40°	26189	40718	25680
45°	12925	23035	13488
50°	5871	10205	5871
55°	347	3817	347
60°	0	796	398
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P241826

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	10.6
10°-20°	436.0	26.8
20°-30°	508.1	31.3
30°-40°	355.0	21.8
40°-50°	132.8	8.2
50°-60°	20.9	1.3
60°-70°	0.4	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°	1116.4	68.7
0°-40°	1471.4	90.5
0°-60°	1625.1	100.0
0°-90°	1625.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1625.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1840	1843	1845	1838	1838	172
15°	1568	1568	1565	1565	1562	437
25°	1103	1119	1119	1121	1111	504
35°	509	566	620	568	514	321
45°	119	156	213	156	125	101
55°	3	16	29	18	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: P241826

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.8	1881.8	1881.8	1881.8	1881.8
2.5°	1866.2	1866.2	1868.8	1868.8	1871.4
5°	1840.2	1842.8	1845.4	1837.6	1837.6
7.5°	1798.7	1796.1	1793.5	1793.5	1793.5
10°	1739.0	1736.4	1733.8	1728.6	1726.0
12.5°	1658.5	1655.9	1650.8	1653.4	1653.4
15°	1567.7	1567.7	1565.1	1565.1	1562.5
17.5°	1469.1	1466.5	1461.3	1463.9	1463.9
20°	1365.2	1360.1	1352.3	1354.9	1362.7
22.5°	1245.9	1248.4	1238.1	1243.3	1243.3
25°	1103.1	1118.7	1118.7	1121.3	1110.9
27.5°	973.3	983.7	1007.1	981.1	973.3
30°	828.0	848.7	882.5	846.1	822.8
32.5°	667.1	708.6	757.9	711.2	667.1
35°	508.7	565.8	620.3	568.4	513.9
37.5°	366.0	430.9	508.7	436.0	371.2
40°	262.1	319.3	407.5	319.3	257.0
42.5°	179.1	223.2	303.7	225.8	179.1
45°	119.4	155.7	212.8	155.7	124.6
47.5°	80.5	106.4	137.6	106.4	80.5
50°	49.3	70.1	85.7	70.1	49.3
52.5°	23.4	38.9	49.3	38.9	23.4
55°	2.6	15.6	28.6	18.2	2.6
57.5°	2.6	2.6	15.6	2.6	2.6
60°	0.0	2.6	5.2	2.6	2.6
62.5°	0.0	0.0	0.0	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)