

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: P241836

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241836
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
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

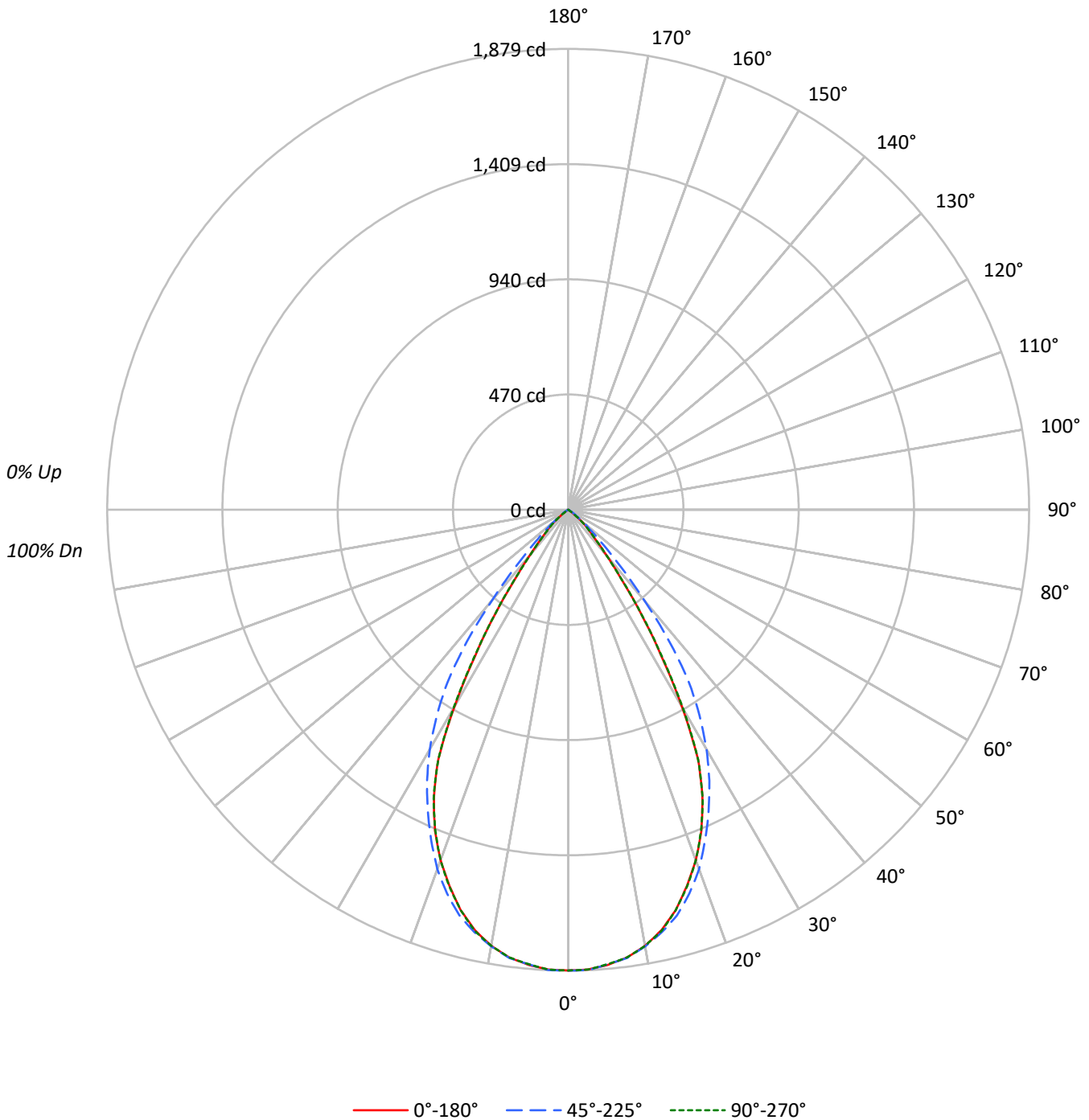
Lumens per Lamp: N/A
Luminaire Lumens: 1821.0 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.98
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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



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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				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	82	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°	143825	143825	143825
5°	143114	142907	142907
10°	140316	140525	140316
15°	133969	135697	133969
20°	123911	127030	123911
25°	109337	114404	109565
30°	82074	99698	82799
35°	48235	80136	48487
40°	24011	48571	23741
45°	13304	21877	13304
50°	6502	9110	6502
55°	360	4003	360
60°	413	842	413
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	9.7
10°-20°	475.0	26.1
20°-30°	601.9	33.1
30°-40°	412.8	22.7
40°-50°	133.1	7.3
50°-60°	21.7	1.2
60°-70°	0.6	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°	1252.9	68.8
0°-40°	1665.6	91.5
0°-60°	1820.4	100.0
0°-90°	1821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1879	1879	1879	1879	1879	
5°	1863	1865	1860	1865	1860	176
15°	1691	1702	1712	1702	1691	472
25°	1295	1333	1355	1330	1297	581
35°	516	636	858	642	519	330
45°	123	153	202	150	123	101
55°	3	16	30	16	3	13
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1879.0	1879.0	1879.0	1879.0	1879.0
2.5°	1876.3	1876.3	1879.0	1876.3	1876.3
5°	1862.6	1865.4	1859.9	1865.4	1859.9
7.5°	1840.8	1838.1	1843.5	1838.1	1840.8
10°	1805.3	1802.6	1808.0	1802.6	1805.3
12.5°	1756.1	1758.9	1764.3	1761.6	1758.9
15°	1690.6	1701.5	1712.4	1701.5	1690.6
17.5°	1608.6	1622.3	1641.4	1622.3	1611.4
20°	1521.2	1534.9	1559.5	1537.6	1521.2
22.5°	1417.5	1444.8	1458.4	1442.0	1414.7
25°	1294.6	1332.8	1354.6	1330.1	1297.3
27.5°	1147.1	1207.2	1245.4	1207.2	1147.1
30°	928.6	1046.0	1128.0	1046.0	936.8
32.5°	704.6	841.2	996.9	835.7	712.8
35°	516.2	636.4	857.6	641.8	518.9
37.5°	352.3	458.8	677.3	453.4	355.0
40°	240.3	316.8	486.1	314.1	237.6
42.5°	169.3	215.8	322.3	215.8	166.6
45°	122.9	152.9	202.1	150.2	122.9
47.5°	90.1	112.0	125.6	109.2	87.4
50°	54.6	76.5	76.5	76.5	54.6
52.5°	24.6	43.7	46.4	43.7	24.6
55°	2.7	16.4	30.0	16.4	2.7
57.5°	2.7	2.7	16.4	2.7	2.7
60°	2.7	2.7	5.5	2.7	2.7
62.5°	0.0	0.0	2.7	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)