

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: P241821

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241821
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
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

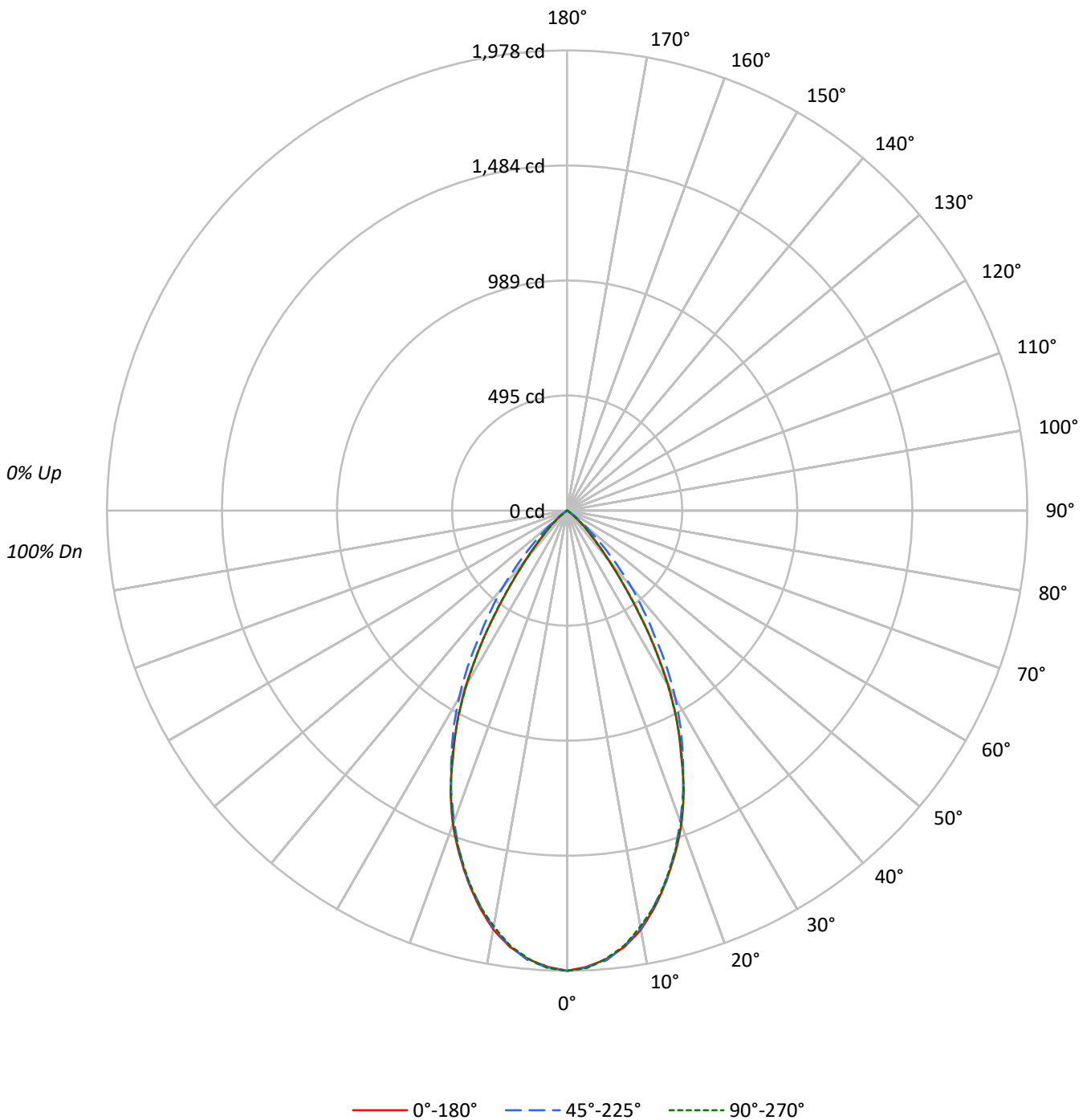
Lumens per Lamp: N/A
Luminaire Lumens: 1709.0 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.89
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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



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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	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°	151441	151441	151441
5°	148670	149084	148462
10°	142119	141691	141054
15°	130617	130403	130189
20°	116930	115814	116702
25°	97952	99337	98645
30°	76948	82012	76462
35°	49982	60943	50487
40°	27538	42816	26998
45°	13585	24226	14181
50°	6180	10729	6180
55°	360	4003	360
60°	0	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°	181.1	10.6
10°-20°	458.5	26.8
20°-30°	534.2	31.3
30°-40°	373.3	21.8
40°-50°	139.6	8.2
50°-60°	21.9	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°	1173.8	68.7
0°-40°	1547.1	90.5
0°-60°	1708.7	100.0
0°-90°	1709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1935	1938	1940	1932	1932	181
15°	1648	1648	1646	1646	1643	460
25°	1160	1176	1176	1179	1168	530
35°	535	595	652	598	540	337
45°	126	164	224	164	131	107
55°	3	16	30	19	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1978.5	1978.5	1978.5	1978.5	1978.5
2.5°	1962.2	1962.2	1964.9	1964.9	1967.6
5°	1934.9	1937.6	1940.3	1932.2	1932.2
7.5°	1891.2	1888.5	1885.8	1885.8	1885.8
10°	1828.5	1825.7	1823.0	1817.5	1814.8
12.5°	1743.9	1741.1	1735.7	1738.4	1738.4
15°	1648.3	1648.3	1645.6	1645.6	1642.9
17.5°	1544.6	1541.9	1536.4	1539.2	1539.2
20°	1435.5	1430.0	1421.8	1424.6	1432.7
22.5°	1309.9	1312.7	1301.7	1307.2	1307.2
25°	1159.8	1176.2	1176.2	1178.9	1168.0
27.5°	1023.4	1034.3	1058.9	1031.6	1023.4
30°	870.6	892.4	927.9	889.7	865.1
32.5°	701.4	745.0	796.9	747.8	701.4
35°	534.9	594.9	652.2	597.7	540.3
37.5°	384.8	453.0	534.9	458.5	390.3
40°	275.6	335.7	428.5	335.7	270.2
42.5°	188.3	234.7	319.3	237.4	188.3
45°	125.5	163.7	223.8	163.7	131.0
47.5°	84.6	111.9	144.6	111.9	84.6
50°	51.9	73.7	90.1	73.7	51.9
52.5°	24.6	40.9	51.9	40.9	24.6
55°	2.7	16.4	30.0	19.1	2.7
57.5°	2.7	2.7	16.4	2.7	2.7
60°	0.0	2.7	5.5	2.7	2.7
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)