

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: P241866

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-52)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-41SNDMW
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

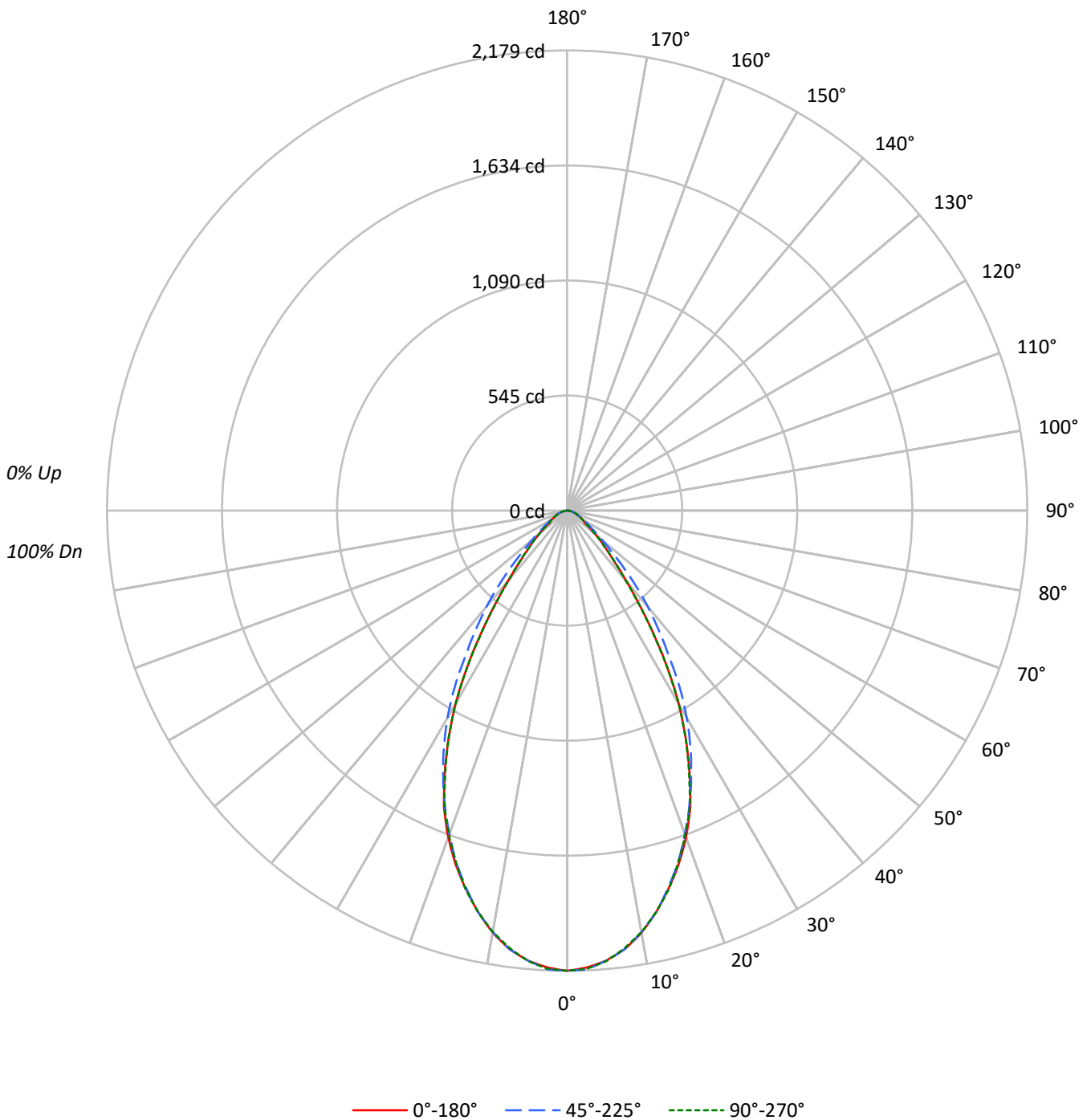
Lumens per Lamp: N/A
Luminaire Lumens: 2304.2 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.93
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	66	72	68	65	63
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	79	68	61	57	77	67	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	49	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	166811	166811	166811
5°	164298	164298	164513
10°	157710	157500	157500
15°	146941	146513	147163
20°	134141	132806	133245
25°	115781	117403	115325
30°	93414	100175	93414
35°	66606	78342	66092
40°	43385	59213	42846
45°	28967	39911	29270
50°	20815	25364	20494
55°	13852	17856	13852
60°	12538	13380	12538
65°	11374	11374	11374
70°	10384	10384	10384
75°	8872	8872	8872
80°	8419	8419	8419
85°	7202	7202	7202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.7	8.7
10°-20°	517.5	22.5
20°-30°	629.1	27.3
30°-40°	486.9	21.1
40°-50°	250.8	10.9
50°-60°	113.6	4.9
60°-70°	62.9	2.7
70°-80°	33.1	1.4
80°-90°	9.6	0.4
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°	1347.3	58.5
0°-40°	1834.2	79.6
0°-60°	2198.6	95.4
0°-90°	2304.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2304.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2179	2179	2179	2179	2179	
5°	2138	2144	2138	2141	2141	201
15°	1854	1854	1849	1852	1857	519
25°	1371	1387	1390	1385	1366	624
35°	713	784	838	781	707	448
45°	268	309	369	309	270	216
55°	104	120	134	120	104	103
65°	63	63	63	63	63	62
75°	30	30	30	30	30	33
85°	8	8	8	8	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2179.3	2179.3	2179.3	2179.3	2179.3
2.5°	2165.7	2168.4	2173.8	2171.1	2171.1
5°	2138.3	2143.8	2138.3	2141.1	2141.1
7.5°	2094.6	2094.6	2094.6	2089.2	2089.2
10°	2029.1	2026.4	2026.4	2026.4	2026.4
12.5°	1947.2	1949.9	1947.2	1949.9	1947.2
15°	1854.3	1854.3	1848.9	1851.6	1857.1
17.5°	1756.0	1753.3	1747.8	1745.1	1747.8
20°	1646.8	1638.6	1630.4	1635.8	1635.8
22.5°	1523.9	1521.1	1513.0	1515.7	1518.4
25°	1370.9	1387.3	1390.1	1384.6	1365.5
27.5°	1215.3	1234.4	1264.4	1234.4	1215.3
30°	1056.9	1086.9	1133.4	1086.9	1056.9
32.5°	884.8	939.5	991.3	942.2	882.1
35°	712.8	783.8	838.4	781.1	707.3
37.5°	559.8	628.1	710.1	630.9	557.1
40°	434.2	497.0	592.6	497.0	428.8
42.5°	338.6	393.3	477.9	390.5	338.6
45°	267.6	308.6	368.7	308.6	270.4
47.5°	218.5	248.5	278.6	248.5	218.5
50°	174.8	196.6	213.0	196.6	172.1
52.5°	136.5	155.7	166.6	155.7	136.5
55°	103.8	120.2	133.8	120.2	103.8
57.5°	92.9	95.6	109.2	95.6	92.9
60°	81.9	81.9	87.4	81.9	81.9
62.5°	71.0	73.7	73.7	73.7	71.0
65°	62.8	62.8	62.8	62.8	62.8
67.5°	51.9	54.6	54.6	54.6	51.9
70°	46.4	46.4	46.4	46.4	46.4
72.5°	38.2	38.2	38.2	38.2	38.2
75°	30.0	30.0	30.0	30.0	30.0
77.5°	24.6	24.6	24.6	24.6	24.6
80°	19.1	19.1	19.1	19.1	19.1
82.5°	13.7	13.7	13.7	13.7	13.7
85°	8.2	8.2	8.2	8.2	8.2
87.5°	2.7	2.7	2.7	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)