

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: P241784

Luminaire Tested: **PRS415D010-S4M12-44SMDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-47)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS415D010-S4M12-44SMDC-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1304.5 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.1
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

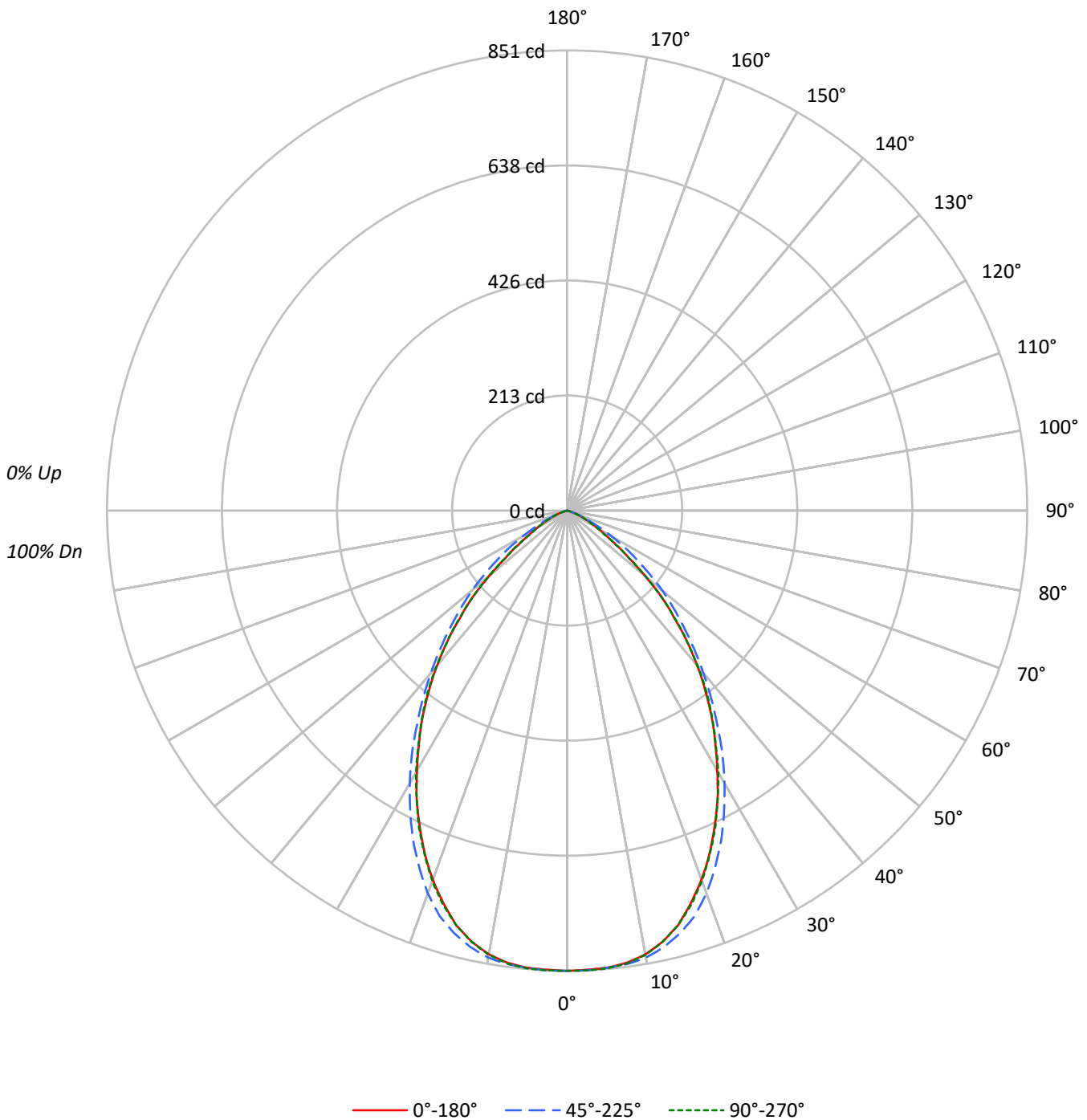
Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	65154	65154	65154
5°	65203	65203	65303
10°	64760	65257	64861
15°	62864	64084	62864
20°	59161	61369	59373
25°	54491	56881	54711
30°	49054	51449	49398
35°	43563	45245	43684
40°	37440	39119	37570
45°	30245	33038	30526
50°	22387	27293	22542
55°	14773	20791	14773
60°	9859	14390	9461
65°	6538	8404	6538
70°	3737	4319	3737
75°	0	1538	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	6.2
10°-20°	224.4	17.2
20°-30°	303.0	23.2
30°-40°	298.6	22.9
40°-50°	228.0	17.5
50°-60°	121.0	9.3
60°-70°	43.4	3.3
70°-80°	5.5	0.4
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°	608.0	46.6
0°-40°	906.6	69.5
0°-60°	1255.7	96.3
0°-90°	1304.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1304.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	849	849	849	850	850	81
15°	793	802	809	801	793	222
25°	645	662	674	664	648	296
35°	466	480	484	482	468	290
45°	279	298	305	299	282	216
55°	111	130	156	130	111	103
65°	36	42	46	42	36	37
75°	0	1	5	1	0	4
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°	851.2	851.2	851.2	851.2	851.2
2.5°	849.9	849.9	851.2	851.2	851.2
5°	848.6	848.6	848.6	849.9	849.9
7.5°	843.5	843.5	846.1	844.8	844.8
10°	833.2	835.8	839.6	835.8	834.5
12.5°	816.5	822.9	826.8	822.9	816.5
15°	793.3	802.3	808.7	801.0	793.3
17.5°	761.1	772.7	785.5	772.7	763.7
20°	726.3	740.5	753.4	741.8	728.9
22.5°	687.7	703.1	714.7	704.4	689.0
25°	645.2	661.9	673.5	664.5	647.8
27.5°	602.7	619.4	628.4	620.7	602.7
30°	555.0	573.1	582.1	575.6	558.9
32.5°	510.0	526.7	534.4	528.0	511.2
35°	466.2	480.3	484.2	481.6	467.5
37.5°	419.8	435.3	437.8	437.8	423.7
40°	374.7	388.9	391.5	390.2	376.0
42.5°	328.4	343.8	347.7	343.8	328.4
45°	279.4	297.5	305.2	298.8	282.0
47.5°	238.2	252.4	266.6	253.7	237.0
50°	188.0	212.5	229.2	211.2	189.3
52.5°	144.2	170.0	190.6	168.7	144.2
55°	110.7	130.1	155.8	130.1	110.7
57.5°	83.7	99.2	124.9	97.9	81.1
60°	64.4	76.0	94.0	73.4	61.8
62.5°	48.9	56.7	67.0	55.4	47.6
65°	36.1	42.5	46.4	42.5	36.1
67.5°	25.8	30.9	30.9	30.9	25.8
70°	16.7	20.6	19.3	20.6	16.7
72.5°	6.4	10.3	10.3	10.3	6.4
75°	0.0	1.3	5.2	1.3	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)