

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: P241744

Luminaire Tested: **PRS415D010-S4M12-44SMDH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-44)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS415D010-S4M12-44SMDH
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1343.3 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 1.06
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

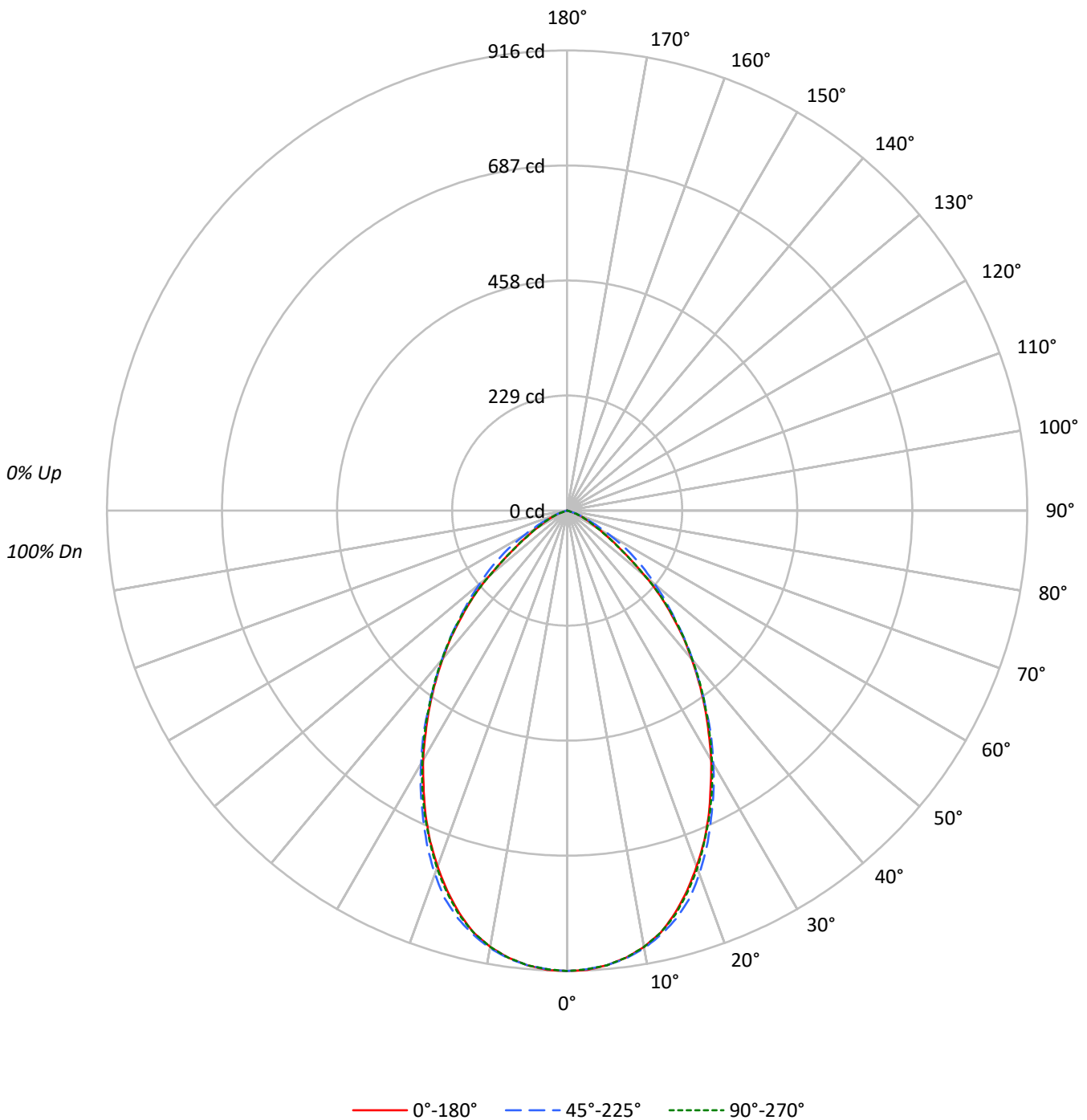
Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	91					91			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81					81			
3	98	90	83	79	96	88	83	78	85	81	77	83	79	75	81	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	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	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41					41			
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°	70152	70152	70152
5°	69805	69805	69805
10°	68537	68739	68537
15°	65756	66596	65962
20°	61393	62697	61719
25°	56332	57236	56560
30°	50697	51405	50936
35°	44628	45002	44871
40°	38519	38789	38789
45°	31912	32637	32345
50°	24150	27162	24150
55°	16027	21899	15840
60°	10624	15324	10624
65°	7498	9183	7245
70°	4185	4767	4185
75°	384	1567	384
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	6.4
10°-20°	233.8	17.4
20°-30°	309.2	23.0
30°-40°	301.4	22.4
40°-50°	232.2	17.3
50°-60°	126.9	9.4
60°-70°	47.0	3.5
70°-80°	6.8	0.5
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°	628.9	46.8
0°-40°	930.3	69.3
0°-60°	1289.4	96.0
0°-90°	1343.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1343.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	908	908	908	908	908	86
15°	830	835	840	836	832	232
25°	667	675	678	678	670	306
35°	478	483	482	487	480	298
45°	295	303	302	304	299	227
55°	120	135	164	136	119	112
65°	41	45	51	45	40	41
75°	1	3	5	3	1	5
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°	916.5	916.5	916.5	916.5	916.5
2.5°	915.1	913.8	913.8	913.8	913.8
5°	908.5	908.5	908.5	908.5	908.5
7.5°	897.8	897.8	899.1	897.8	897.8
10°	881.8	883.1	884.4	884.4	881.8
12.5°	860.4	863.1	864.4	863.1	860.4
15°	829.8	835.1	840.4	836.4	832.4
17.5°	793.7	800.4	809.7	801.7	796.4
20°	753.7	761.7	769.7	764.4	757.7
22.5°	712.4	719.0	725.7	723.0	713.7
25°	667.0	675.0	677.7	677.7	669.7
27.5°	619.0	628.3	631.0	629.7	624.3
30°	573.6	580.3	581.6	583.0	576.3
32.5°	524.3	530.9	533.6	534.9	528.3
35°	477.6	482.9	481.6	486.9	480.2
37.5°	430.9	436.2	433.6	438.9	434.9
40°	385.5	388.2	388.2	392.2	388.2
42.5°	341.5	344.2	345.5	346.8	344.2
45°	294.8	302.8	301.5	304.2	298.8
47.5°	252.1	258.8	264.1	261.5	253.5
50°	202.8	218.8	228.1	221.4	202.8
52.5°	156.1	174.8	196.1	176.1	156.1
55°	120.1	134.7	164.1	136.1	118.7
57.5°	90.7	102.7	132.1	102.7	90.7
60°	69.4	78.7	100.1	78.7	69.4
62.5°	53.4	60.0	72.0	60.0	53.4
65°	41.4	45.4	50.7	45.4	40.0
67.5°	29.3	33.4	33.4	33.4	29.3
70°	18.7	22.7	21.3	22.7	18.7
72.5°	8.0	12.0	13.3	12.0	8.0
75°	1.3	2.7	5.3	2.7	1.3
77.5°	0.0	1.3	1.3	1.3	1.3
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)