

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: P252889

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS415D010-S4M12-44SWDH
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE 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: 1283.7 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

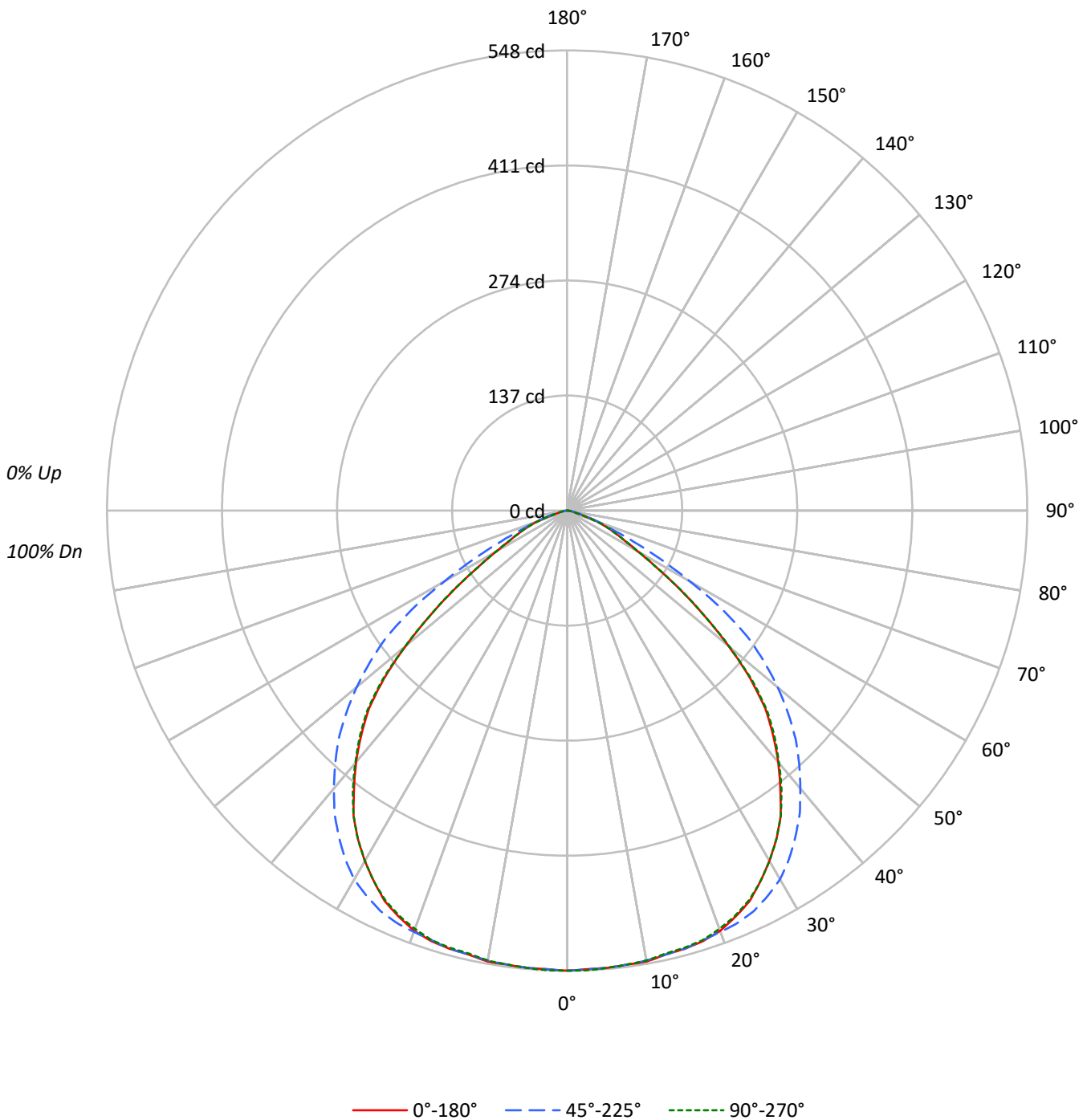
Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88					88			
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77					77			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67					67			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	61	59					59			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	52					52			
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	48	46					46			
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41					41			
8	65	52	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37					37			
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33					33			
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	41938	41938	41938
5°	41998	41998	41998
10°	42391	42290	42290
15°	42815	42815	42712
20°	43383	43489	43180
25°	43368	44441	43259
30°	42575	44820	42575
35°	41432	44292	41432
40°	39089	43166	39219
45°	36133	41654	36415
50°	29889	38999	30044
55°	21939	35030	22099
60°	14819	25948	15018
65°	11302	15685	11302
70°	8281	8840	7990
75°	3401	4909	3401
80°	2821	2821	2821
85°	2196	2196	2196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	4.1
10°-20°	152.7	11.9
20°-30°	238.5	18.6
30°-40°	285.3	22.2
40°-50°	274.2	21.4
50°-60°	184.2	14.3
60°-70°	75.2	5.9
70°-80°	18.7	1.5
80°-90°	2.9	0.2
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°	443.3	34.5
0°-40°	728.5	56.8
0°-60°	1186.8	92.5
0°-90°	1283.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1283.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	547	547	547	547	547	52
15°	540	540	540	539	539	153
25°	514	519	526	517	512	236
35°	443	456	474	457	443	275
45°	334	358	385	359	336	253
55°	164	199	262	200	166	149
65°	62	70	87	70	62	63
75°	12	13	17	13	12	17
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	547.9	547.9	547.9	547.9	547.9
2.5°	546.6	546.6	546.6	547.9	547.9
5°	546.6	546.6	546.6	546.6	546.6
7.5°	545.4	545.4	545.4	545.4	545.4
10°	545.4	544.1	544.1	544.1	544.1
12.5°	541.5	541.5	541.5	541.5	540.3
15°	540.3	540.3	540.3	539.0	539.0
17.5°	537.7	537.7	536.4	536.4	536.4
20°	532.6	533.9	533.9	532.6	530.1
22.5°	523.7	527.5	531.3	526.2	522.4
25°	513.5	518.6	526.2	517.3	512.2
27.5°	498.2	505.9	517.3	505.9	498.2
30°	481.7	491.8	507.1	491.8	481.7
32.5°	463.8	475.3	491.8	475.3	463.8
35°	443.4	456.2	474.0	457.4	443.4
37.5°	416.7	434.5	454.9	437.1	419.2
40°	391.2	410.3	432.0	411.6	392.5
42.5°	363.1	384.8	409.0	386.1	365.7
45°	333.8	358.1	384.8	359.3	336.4
47.5°	295.6	324.9	356.8	328.7	298.2
50°	251.0	288.0	327.5	290.5	252.3
52.5°	206.4	242.1	295.6	244.6	206.4
55°	164.4	198.8	262.5	200.1	165.6
57.5°	126.1	156.7	219.2	159.3	126.1
60°	96.8	119.8	169.5	121.0	98.1
62.5°	76.5	90.5	124.9	89.2	76.5
65°	62.4	70.1	86.6	70.1	62.4
67.5°	49.7	54.8	57.3	54.8	49.7
70°	37.0	42.0	39.5	42.0	35.7
72.5°	21.7	26.8	26.8	26.8	20.4
75°	11.5	12.7	16.6	12.7	11.5
77.5°	8.9	8.9	10.2	8.9	8.9
80°	6.4	6.4	6.4	6.4	6.4
82.5°	3.8	3.8	3.8	3.8	3.8
85°	2.5	2.5	2.5	2.5	2.5
87.5°	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)