

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: P252894

Luminaire Tested: **PRS415D010-S4M12-44SWDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252894
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-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1299.2 lumens
Efficiency: N/A
Efficacy: 108.3 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

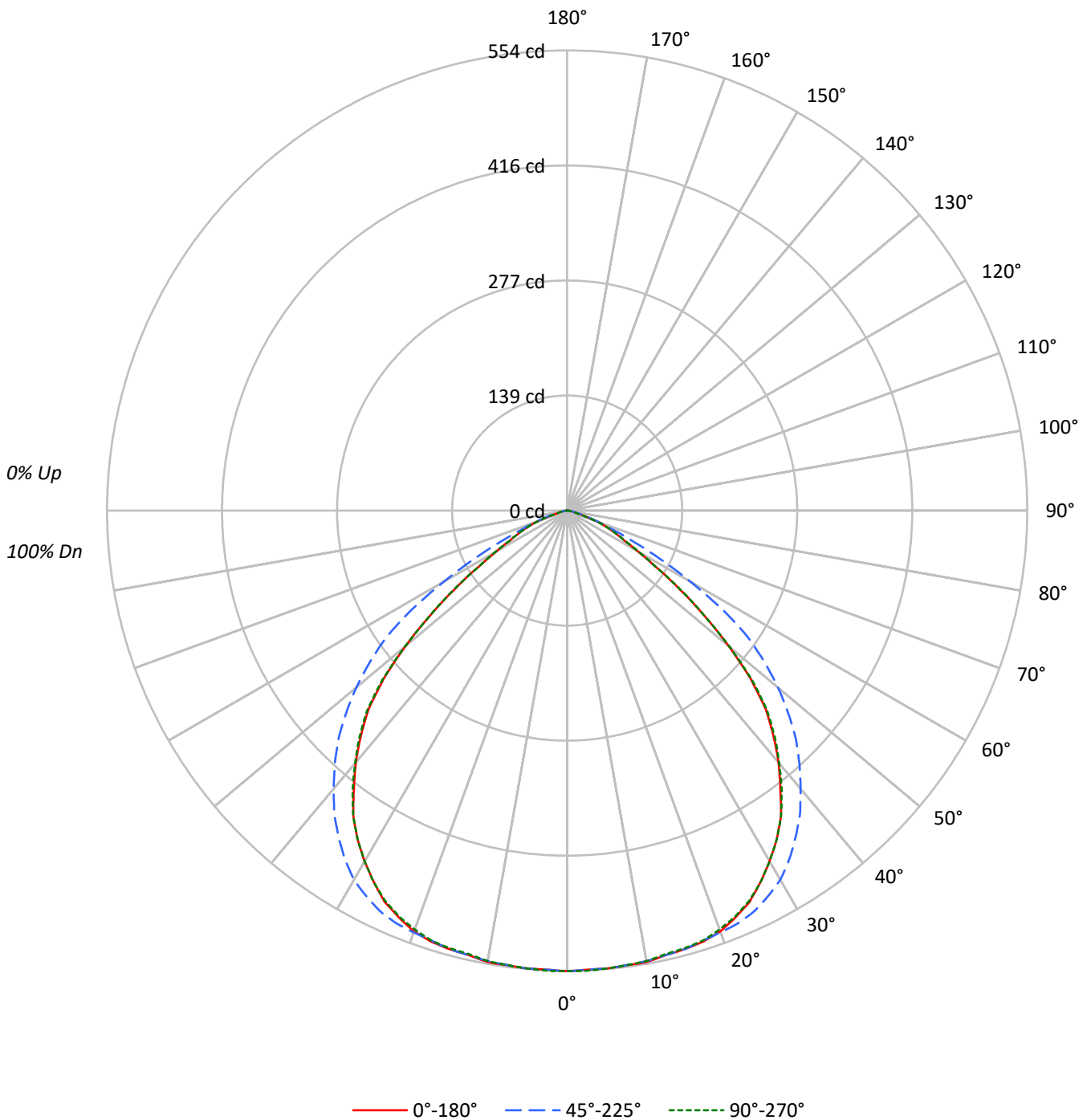
Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	61	59
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	52
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	48	46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41
8	65	52	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	42443	42443	42443
5°	42513	42513	42513
10°	42904	42803	42803
15°	43330	43330	43227
20°	43913	44019	43701
25°	43892	44981	43782
30°	43088	45368	43088
35°	41937	44824	41937
40°	39558	43685	39688
45°	36577	42163	36859
50°	30258	39463	30401
55°	22206	35457	22379
60°	15003	26254	15202
65°	11447	15884	11447
70°	8370	8952	8079
75°	3431	4968	3431
80°	2821	2821	2821
85°	2283	2283	2283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	4.1
10°-20°	154.5	11.9
20°-30°	241.4	18.6
30°-40°	288.7	22.2
40°-50°	277.5	21.4
50°-60°	186.4	14.3
60°-70°	76.1	5.9
70°-80°	18.9	1.5
80°-90°	3.0	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°	448.6	34.5
0°-40°	737.3	56.8
0°-60°	1201.2	92.5
0°-90°	1299.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1299.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	554	554	554	554	554	
5°	553	553	553	553	553	53
15°	547	547	547	546	546	155
25°	520	525	533	524	518	239
35°	449	462	480	463	449	279
45°	338	362	390	364	340	256
55°	166	201	266	202	168	151
65°	63	71	88	71	63	64
75°	12	13	17	13	12	17
85°	3	3	3	3	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	554.5	554.5	554.5	554.5	554.5
2.5°	553.3	553.3	553.3	554.5	554.5
5°	553.3	553.3	553.3	553.3	553.3
7.5°	552.0	552.0	552.0	552.0	552.0
10°	552.0	550.7	550.7	550.7	550.7
12.5°	548.1	548.1	548.1	548.1	546.8
15°	546.8	546.8	546.8	545.5	545.5
17.5°	544.2	544.2	542.9	542.9	542.9
20°	539.1	540.4	540.4	539.1	536.5
22.5°	530.0	533.9	537.8	532.6	528.8
25°	519.7	524.9	532.6	523.6	518.4
27.5°	504.2	512.0	523.6	512.0	504.2
30°	487.5	497.8	513.3	497.8	487.5
32.5°	469.4	481.0	497.8	481.0	469.4
35°	448.8	461.7	479.7	463.0	448.8
37.5°	421.7	439.8	460.4	442.3	424.3
40°	395.9	415.3	437.2	416.6	397.2
42.5°	367.5	389.5	414.0	390.8	370.1
45°	337.9	362.4	389.5	363.7	340.5
47.5°	299.2	328.9	361.1	332.7	301.8
50°	254.1	291.5	331.4	294.0	255.3
52.5°	208.9	245.0	299.2	247.6	208.9
55°	166.4	201.2	265.7	202.5	167.7
57.5°	127.7	158.6	221.8	161.2	127.7
60°	98.0	121.2	171.5	122.5	99.3
62.5°	77.4	91.6	126.4	90.3	77.4
65°	63.2	70.9	87.7	70.9	63.2
67.5°	50.3	55.5	58.0	55.5	50.3
70°	37.4	42.6	40.0	42.6	36.1
72.5°	21.9	27.1	27.1	27.1	20.6
75°	11.6	12.9	16.8	12.9	11.6
77.5°	9.0	9.0	10.3	9.0	9.0
80°	6.4	6.4	6.4	6.4	6.4
82.5°	3.9	3.9	3.9	3.9	3.9
85°	2.6	2.6	2.6	2.6	2.6
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)