

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: P252869

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252869
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-S4M12-44SWDC-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE 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: 1250.5 lumens
Efficiency: N/A
Efficacy: 104.2 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

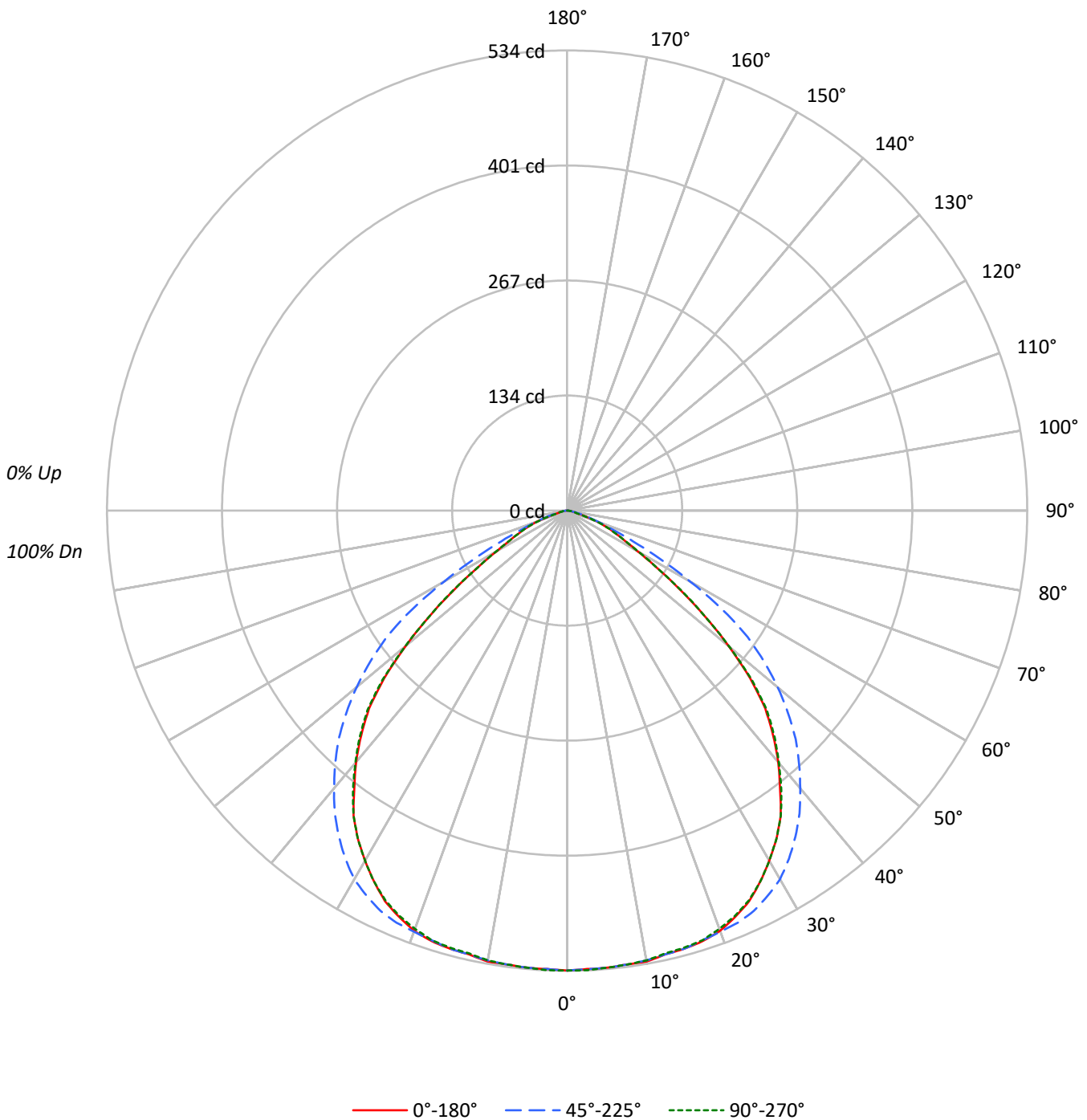
Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252869

CATALOG NUMBER: PRS415D010-S4M12-44SWDC-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P252869

CATALOG NUMBER: PRS415D010-S4M12-44SWDC-3000K

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°	40859	40859	40859
5°	40915	40915	40915
10°	41295	41194	41194
15°	41706	41706	41611
20°	42267	42365	42064
25°	42245	43301	42144
30°	41470	43662	41470
35°	40367	43152	40367
40°	38080	42046	38200
45°	35202	40582	35473
50°	29115	37987	29270
55°	21365	34123	21539
60°	14436	25275	14635
65°	11012	15286	11012
70°	8057	8616	7788
75°	3312	4761	3312
80°	2733	2733	2733
85°	2196	2196	2196



TEST NUMBER: P252869

CATALOG NUMBER: PRS415D010-S4M12-44SWDC-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	4.1
10°-20°	148.7	11.9
20°-30°	232.3	18.6
30°-40°	277.9	22.2
40°-50°	267.1	21.4
50°-60°	179.4	14.3
60°-70°	73.3	5.9
70°-80°	18.2	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°	431.8	34.5
0°-40°	709.7	56.8
0°-60°	1156.2	92.5
0°-90°	1250.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1250.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	532	532	532	532	532	51
15°	526	526	526	525	525	149
25°	500	505	513	504	499	230
35°	432	444	462	446	432	268
45°	325	349	375	350	328	246
55°	160	194	256	195	161	145
65°	61	68	84	68	61	61
75°	11	12	16	12	11	16
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



TEST NUMBER: P252869

CATALOG NUMBER: PRS415D010-S4M12-44SWDC-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	533.8	533.8	533.8	533.8	533.8
2.5°	532.5	532.5	532.5	533.8	533.8
5°	532.5	532.5	532.5	532.5	532.5
7.5°	531.3	531.3	531.3	531.3	531.3
10°	531.3	530.0	530.0	530.0	530.0
12.5°	527.5	527.5	527.5	527.5	526.3
15°	526.3	526.3	526.3	525.1	525.1
17.5°	523.8	523.8	522.6	522.6	522.6
20°	518.9	520.1	520.1	518.9	516.4
22.5°	510.2	513.9	517.6	512.7	508.9
25°	500.2	505.2	512.7	504.0	499.0
27.5°	485.3	492.8	504.0	492.8	485.3
30°	469.2	479.1	494.0	479.1	469.2
32.5°	451.8	463.0	479.1	463.0	451.8
35°	432.0	444.4	461.8	445.6	432.0
37.5°	405.9	423.3	443.1	425.8	408.4
40°	381.1	399.7	420.8	400.9	382.3
42.5°	353.8	374.9	398.5	376.1	356.3
45°	325.2	348.8	374.9	350.0	327.7
47.5°	288.0	316.5	347.6	320.3	290.5
50°	244.5	280.5	319.0	283.0	245.8
52.5°	201.1	235.8	288.0	238.3	201.1
55°	160.1	193.6	255.7	194.9	161.4
57.5°	122.9	152.7	213.5	155.2	122.9
60°	94.3	116.7	165.1	117.9	95.6
62.5°	74.5	88.1	121.6	86.9	74.5
65°	60.8	68.3	84.4	68.3	60.8
67.5°	48.4	53.4	55.9	53.4	48.4
70°	36.0	41.0	38.5	41.0	34.8
72.5°	21.1	26.1	26.1	26.1	19.9
75°	11.2	12.4	16.1	12.4	11.2
77.5°	8.7	8.7	9.9	8.7	8.7
80°	6.2	6.2	6.2	6.2	6.2
82.5°	3.7	3.7	3.7	3.7	3.7
85°	2.5	2.5	2.5	2.5	2.5
87.5°	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)