

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: P253014

Luminaire Tested: **PRS615D010-S6M12-64SWDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-64SWDH-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" 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: 1370.3 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

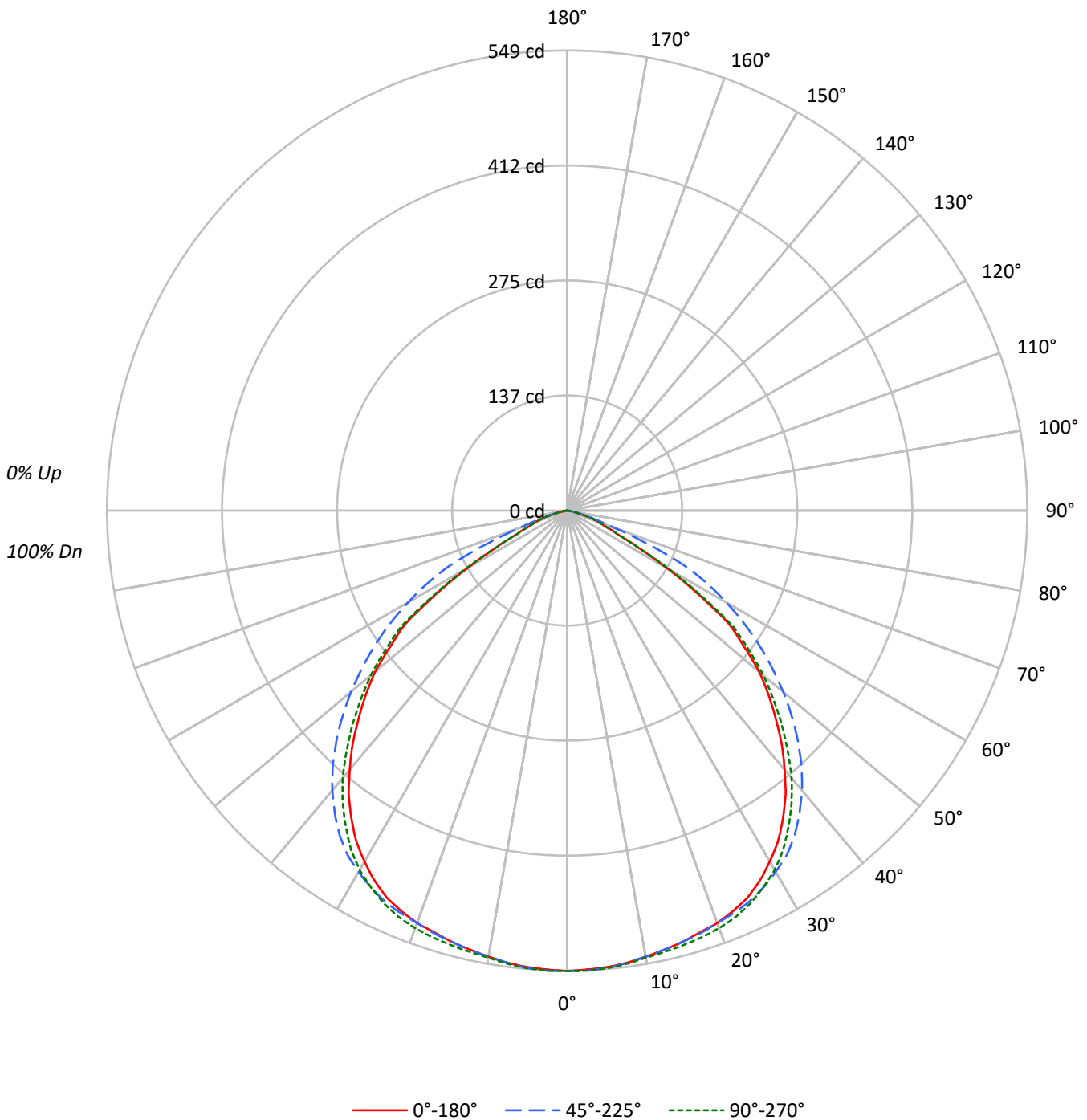
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	100		
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88	88	88	88	88	88	88		
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76	76	76	76	76	76	76		
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65	65	65	65	65	65	65		
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57	57	57	57	57	57	57		
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50	50	50	50	50	50	50		
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44	44	44	44	44	44	44		
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39	39	39	39	39	39	39		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35	35	35	35	35	35	35		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31	31	31	31	31	31	31		
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28	28	28	28	28	28	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23655	23655	23655
5°	23633	23689	23689
10°	23626	23626	23683
15°	23740	23740	23914
20°	23991	23991	24289
25°	24200	24447	24570
30°	24043	24749	24620
35°	23589	24877	24199
40°	22690	24500	23415
45°	21439	23717	22066
50°	20041	22546	20477
55°	17715	21011	18203
60°	11883	18876	12219
65°	6704	15638	6704
70°	5035	7629	4872
75°	3011	3427	3211
80°	1289	1587	1289
85°	642	642	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	3.8
10°-20°	151.0	11.0
20°-30°	236.5	17.3
30°-40°	289.0	21.1
40°-50°	287.3	21.0
50°-60°	226.8	16.6
60°-70°	101.5	7.4
70°-80°	23.6	1.7
80°-90°	2.5	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°	439.5	32.1
0°-40°	728.5	53.2
0°-60°	1242.6	90.7
0°-90°	1370.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1370.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	549	549	549	549	549	
5°	547	547	548	548	548	52
15°	533	531	533	534	536	151
25°	509	511	515	516	517	234
35°	449	458	473	467	460	280
45°	352	369	390	378	362	272
55°	236	254	280	259	242	202
65°	66	86	154	88	66	74
75°	18	22	21	22	19	21
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	549.4	549.4	549.4	549.4	549.4
2.5°	548.1	549.4	549.4	549.4	549.4
5°	546.8	546.8	548.1	548.1	548.1
7.5°	544.2	544.2	544.2	545.5	545.5
10°	540.4	540.4	540.4	541.7	541.7
12.5°	536.5	536.5	536.5	537.8	539.1
15°	532.6	531.4	532.6	533.9	536.5
17.5°	527.5	528.8	528.8	531.4	533.9
20°	523.6	523.6	523.6	527.5	530.1
22.5°	517.2	517.2	519.7	522.3	524.9
25°	509.4	510.7	514.6	515.9	517.2
27.5°	497.8	501.7	506.8	508.1	506.8
30°	483.6	488.8	497.8	496.5	495.2
32.5°	468.2	474.6	487.5	483.6	479.8
35°	448.8	457.8	473.3	466.9	460.4
37.5°	428.2	439.8	455.3	448.8	439.8
40°	403.7	417.9	435.9	426.9	416.6
42.5°	379.2	394.6	414.0	402.4	389.5
45°	352.1	368.9	389.5	377.9	362.4
47.5°	326.3	343.1	363.7	349.5	334.0
50°	299.2	314.7	336.6	321.1	305.7
52.5°	265.7	286.3	308.2	291.5	273.4
55°	236.0	254.1	279.9	259.2	242.5
57.5°	185.7	221.8	250.2	225.7	190.9
60°	138.0	172.8	219.2	178.0	141.9
62.5°	95.4	127.7	188.3	129.0	96.7
65°	65.8	86.4	153.5	87.7	65.8
67.5°	49.0	58.0	103.2	58.0	49.0
70°	40.0	42.6	60.6	42.6	38.7
72.5°	29.7	33.5	33.5	33.5	31.0
75°	18.1	21.9	20.6	21.9	19.3
77.5°	7.7	10.3	12.9	11.6	7.7
80°	5.2	5.2	6.4	5.2	5.2
82.5°	3.9	3.9	3.9	3.9	3.9
85°	1.3	1.3	1.3	1.3	1.3
87.5°	1.3	1.3	1.3	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)