

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: P253005

Luminaire Tested: **PRS620D010-S6M12-64SWDH-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253005
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: PRS620D010-S6M12-64SWDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2150.9 lumens
Efficiency: N/A
Efficacy: 107.5 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

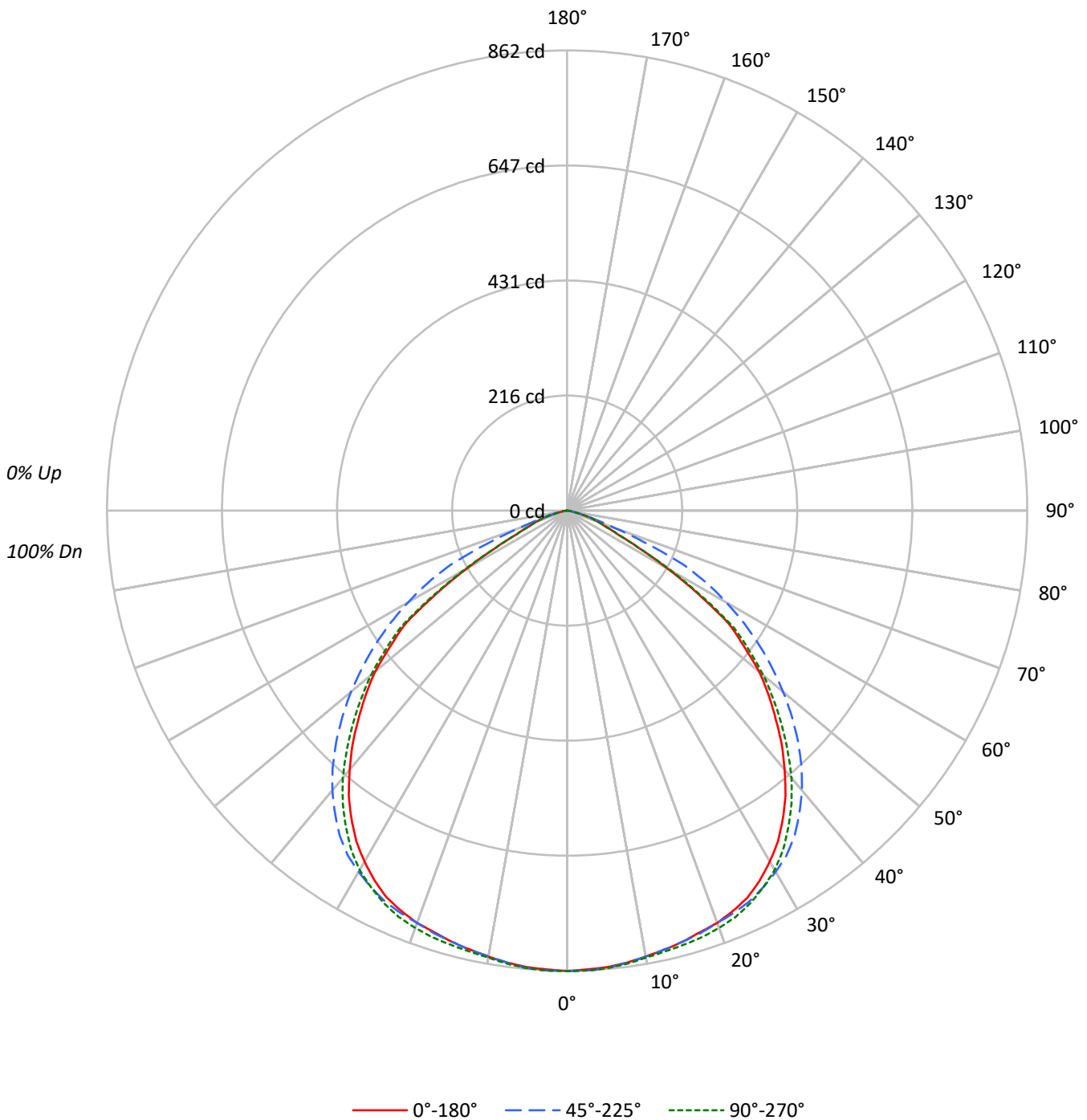
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37131	37131	37131
5°	37100	37187	37187
10°	37083	37083	37175
15°	37269	37269	37541
20°	37659	37659	38121
25°	37986	38371	38566
30°	37745	38848	38650
35°	37029	39053	37986
40°	35612	38461	36753
45°	33654	37228	34640
50°	31462	35394	32138
55°	27812	32976	28570
60°	18652	29640	19177
65°	10514	24542	10514
70°	7906	11972	7641
75°	4708	5390	5057
80°	2008	2504	2008
85°	988	988	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	3.8
10°-20°	237.0	11.0
20°-30°	371.3	17.3
30°-40°	453.6	21.1
40°-50°	451.0	21.0
50°-60°	356.0	16.6
60°-70°	159.4	7.4
70°-80°	37.1	1.7
80°-90°	3.8	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°	689.9	32.1
0°-40°	1143.5	53.2
0°-60°	1950.5	90.7
0°-90°	2150.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2150.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	858	858	860	860	860	82
15°	836	834	836	838	842	236
25°	800	802	808	810	812	368
35°	704	719	743	733	723	439
45°	553	579	611	593	569	426
55°	370	399	439	407	381	317
65°	103	136	241	138	103	116
75°	28	34	32	34	30	32
85°	2	2	2	2	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	862.4	862.4	862.4	862.4	862.4
2.5°	860.4	862.4	862.4	862.4	862.4
5°	858.4	858.4	860.4	860.4	860.4
7.5°	854.3	854.3	854.3	856.3	856.3
10°	848.2	848.2	848.2	850.3	850.3
12.5°	842.2	842.2	842.2	844.2	846.2
15°	836.1	834.1	836.1	838.1	842.2
17.5°	828.0	830.0	830.0	834.1	838.1
20°	821.9	821.9	821.9	828.0	832.0
22.5°	811.8	811.8	815.8	819.9	823.9
25°	799.6	801.7	807.7	809.8	811.8
27.5°	781.4	787.5	795.6	797.6	795.6
30°	759.2	767.3	781.4	779.4	777.4
32.5°	734.9	745.0	765.2	759.2	753.1
35°	704.5	718.7	743.0	732.8	722.7
37.5°	672.1	690.3	714.6	704.5	690.3
40°	633.6	655.9	684.3	670.1	653.9
42.5°	595.2	619.5	649.8	631.6	611.4
45°	552.7	579.0	611.4	593.2	568.9
47.5°	512.2	538.5	570.9	548.6	524.3
50°	469.7	494.0	528.4	504.1	479.8
52.5°	417.0	449.4	483.8	457.5	429.2
55°	370.5	398.8	439.3	406.9	380.6
57.5°	291.5	348.2	392.7	354.3	299.6
60°	216.6	271.3	344.2	279.4	222.7
62.5°	149.8	200.4	295.6	202.4	151.8
65°	103.2	135.6	240.9	137.7	103.2
67.5°	76.9	91.1	162.0	91.1	76.9
70°	62.8	66.8	95.1	66.8	60.7
72.5°	46.6	52.6	52.6	52.6	48.6
75°	28.3	34.4	32.4	34.4	30.4
77.5°	12.1	16.2	20.2	18.2	12.1
80°	8.1	8.1	10.1	8.1	8.1
82.5°	6.1	6.1	6.1	6.1	6.1
85°	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)