

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: P238043

Luminaire Tested: **PRS610D010-S6M12-64SNDH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238043  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-7)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS610D010-S6M12-64SNDH  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

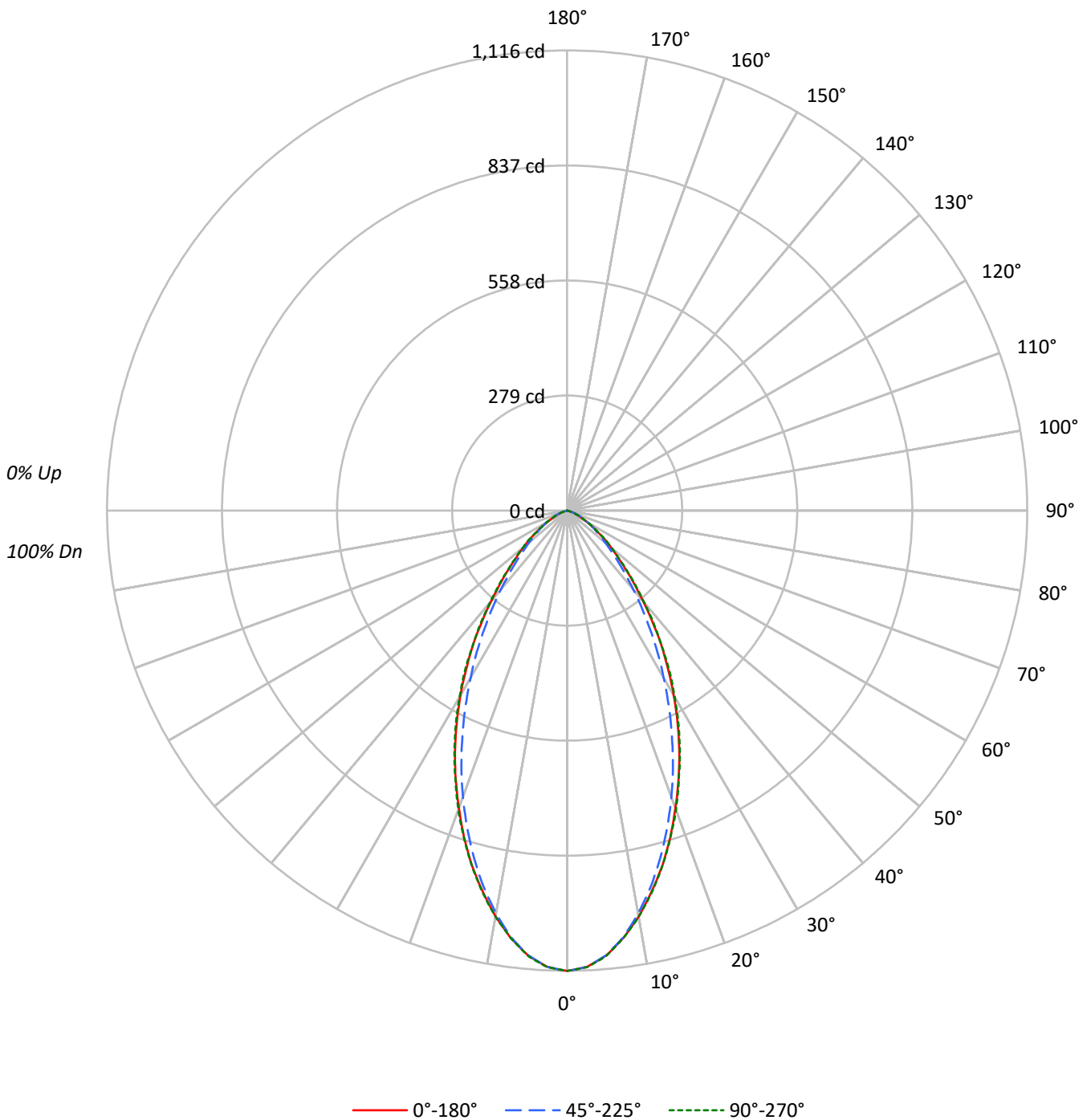
Lumens per Lamp: N/A  
Luminaire Lumens: 1133.0 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
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: P238043  
CATALOG NUMBER: PRS610D010-S6M12-64SNDH

### Luminous Intensity Polar Plot





TEST NUMBER: P238043

CATALOG NUMBER: PRS610D010-S6M12-64SNDH

**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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91				91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83				83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75				75
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68				68
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62				62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57				57
7	78	67	60	56	76	66	60	55	65	59	55	64	59	55	63	58	54	53				53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49				49
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	46				46
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43				43

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	48072	48072	48072
5°	46829	46786	46872
10°	43694	43388	43737
15°	39734	38887	39778
20°	35157	33874	35386
25°	30561	28518	30751
30°	25713	23277	25912
35°	20930	18354	20982
40°	16080	14001	16305
45°	12123	10540	12367
50°	9250	8045	9451
55°	6906	6305	6906
60°	4822	5081	4908
65°	3260	3871	3362
70°	2266	2518	2140
75°	998	1164	998
80°	0	0	0
85°	0	0	0



TEST NUMBER: P238043

CATALOG NUMBER: PRS610D010-S6M12-64SNDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.6	8.9
10°-20°	245.8	21.7
20°-30°	284.3	25.1
30°-40°	232.7	20.5
40°-50°	145.6	12.8
50°-60°	80.1	7.1
60°-70°	35.7	3.2
70°-80°	8.2	0.7
80°-90°	0.0	0.0
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°	630.7	55.7
0°-40°	863.5	76.2
0°-60°	1089.1	96.1
0°-90°	1133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1133.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1084	1082	1082	1084	1084	101
15°	891	881	872	883	892	248
25°	643	618	600	621	647	294
35°	398	368	349	371	399	248
45°	199	182	173	185	203	156
55°	92	88	84	90	92	83
65°	32	35	38	35	33	34
75°	6	7	7	7	6	7
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238043

CATALOG NUMBER: PRS610D010-S6M12-64SNDH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1116.5	1116.5	1116.5	1116.5	1116.5
2.5°	1107.5	1108.5	1107.5	1108.5	1108.5
5°	1083.5	1082.5	1082.5	1084.5	1084.5
7.5°	1045.5	1044.5	1043.5	1045.5	1045.5
10°	999.4	997.4	992.4	998.4	1000.4
12.5°	946.4	942.4	935.4	942.4	948.4
15°	891.4	881.4	872.4	883.4	892.4
17.5°	831.4	818.4	806.3	817.4	832.4
20°	767.3	752.3	739.3	753.3	772.3
22.5°	706.3	685.3	670.3	687.3	707.3
25°	643.3	618.3	600.3	621.3	647.3
27.5°	579.3	552.2	533.2	556.2	585.3
30°	517.2	488.2	468.2	493.2	521.2
32.5°	455.2	428.2	408.2	432.2	462.2
35°	398.2	368.2	349.2	371.2	399.2
37.5°	339.1	312.1	297.1	316.1	344.1
40°	286.1	262.1	249.1	266.1	290.1
42.5°	240.1	219.1	208.1	221.1	245.1
45°	199.1	182.1	173.1	185.1	203.1
47.5°	165.1	152.1	143.1	154.1	168.1
50°	138.1	126.1	120.1	128.1	141.1
52.5°	114.0	106.0	99.0	107.0	117.1
55°	92.0	88.0	84.0	90.0	92.0
57.5°	72.0	71.0	70.0	72.0	73.0
60°	56.0	57.0	59.0	57.0	57.0
62.5°	43.0	45.0	49.0	45.0	44.0
65°	32.0	35.0	38.0	35.0	33.0
67.5°	24.0	26.0	28.0	26.0	24.0
70°	18.0	19.0	20.0	19.0	17.0
72.5°	11.0	13.0	13.0	13.0	11.0
75°	6.0	7.0	7.0	7.0	6.0
77.5°	1.0	3.0	3.0	3.0	1.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)