

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: P238104

Luminaire Tested: **PRS615D010-S6M12-64SMDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-11)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-64SMDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1488.6 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

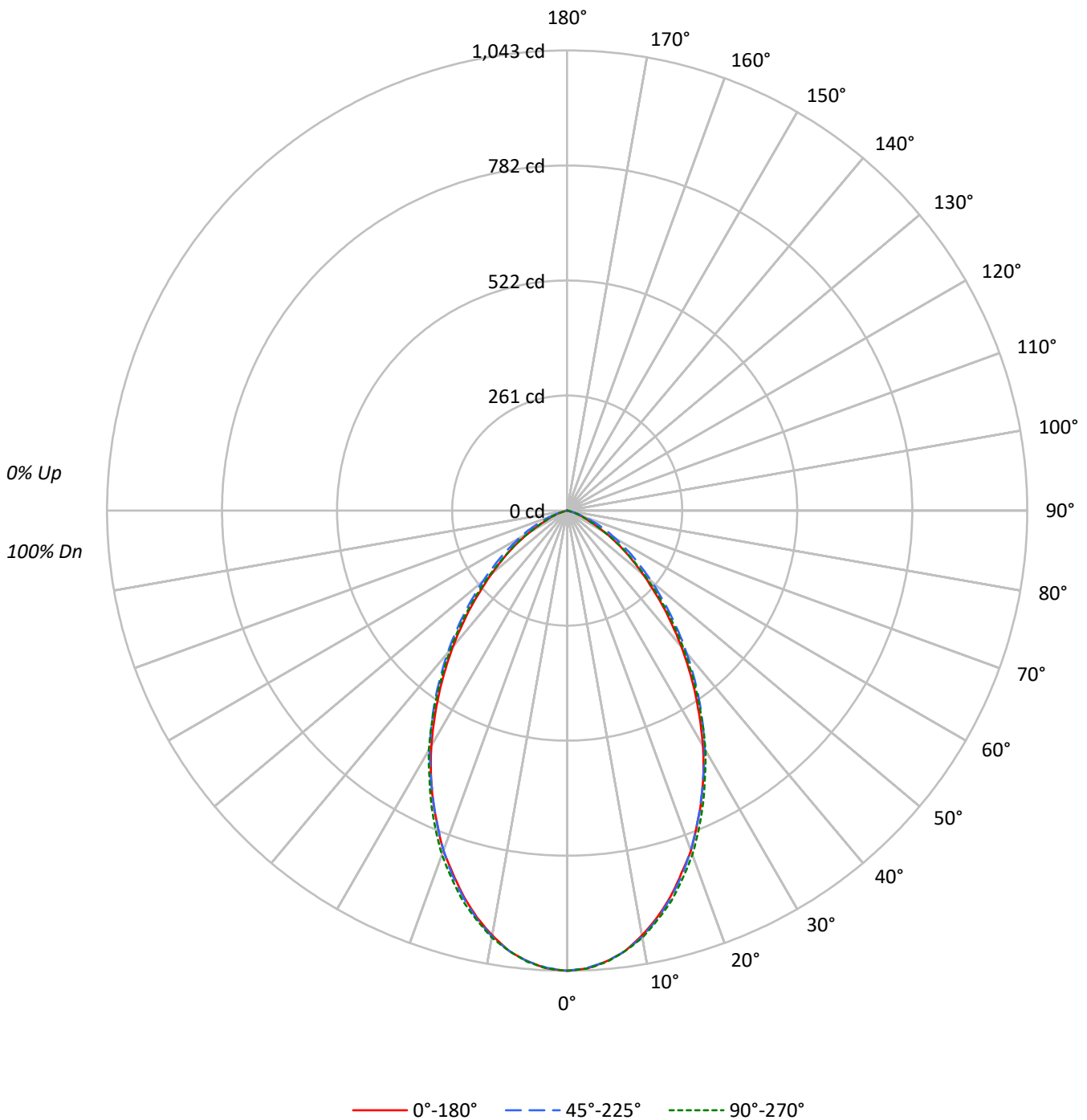
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238104

CATALOG NUMBER: PRS615D010-S6M12-64SMDC

Luminous Intensity Polar Plot





TEST NUMBER: P238104

CATALOG NUMBER: PRS615D010-S6M12-64SMDC

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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	73	68	77	72	67	75	70	66	73	69	66	64					64			
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	63	55	50	72	62	55	50	60	54	50	59	53	49	58	53	49	47					47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	44907	44907	44907
5°	44327	44327	44387
10°	42745	42859	42977
15°	40376	40491	40790
20°	37594	37535	38021
25°	34233	34172	34675
30°	30595	30993	31192
35°	26607	27374	27095
40°	22611	23657	23134
45°	18736	20033	19223
50°	14991	16685	15433
55°	11800	13699	11995
60°	8370	10781	8491
65°	5430	8140	5563
70°	3688	5035	3688
75°	1780	2213	1780
80°	0	322	0
85°	0	0	0



TEST NUMBER: P238104

CATALOG NUMBER: PRS615D010-S6M12-64SMDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	6.5
10°-20°	254.6	17.1
20°-30°	331.4	22.3
30°-40°	321.4	21.6
40°-50°	248.4	16.7
50°-60°	153.6	10.3
60°-70°	67.7	4.6
70°-80°	14.9	1.0
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°	682.5	45.8
0°-40°	1003.9	67.4
0°-60°	1405.9	94.4
0°-90°	1488.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1488.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1026	1027	1026	1027	1027	96
15°	906	907	908	914	915	254
25°	721	719	719	726	730	330
35°	506	512	521	517	516	316
45°	308	320	329	325	316	237
55°	157	169	182	172	160	141
65°	53	64	80	64	55	56
75°	11	13	13	13	11	12
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238104

CATALOG NUMBER: PRS615D010-S6M12-64SMDC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1043.0	1043.0	1043.0	1043.0	1043.0
2.5°	1039.0	1039.0	1037.6	1039.0	1039.0
5°	1025.6	1027.0	1025.6	1027.0	1027.0
7.5°	1007.0	1007.0	1007.0	1008.3	1007.0
10°	977.7	979.0	980.3	981.7	983.0
12.5°	944.4	945.7	947.0	949.7	949.7
15°	905.8	907.1	908.4	913.7	915.1
17.5°	861.8	863.1	865.8	871.1	872.5
20°	820.5	816.5	819.2	823.2	829.8
22.5°	769.9	769.9	769.9	775.2	780.5
25°	720.6	719.3	719.3	725.9	729.9
27.5°	668.7	668.7	670.0	674.0	676.7
30°	615.4	615.4	623.4	622.0	627.4
32.5°	559.4	563.4	571.4	568.8	570.1
35°	506.2	511.5	520.8	516.8	515.5
37.5°	452.9	459.5	470.2	466.2	462.2
40°	402.3	411.6	420.9	415.6	411.6
42.5°	353.0	363.6	374.3	369.0	363.6
45°	307.7	319.7	329.0	325.0	315.7
47.5°	262.4	277.1	286.4	282.4	273.1
50°	223.8	238.4	249.1	242.4	230.4
52.5°	189.1	202.5	213.1	205.1	193.1
55°	157.2	169.2	182.5	171.8	159.8
57.5°	126.5	139.9	151.8	142.5	129.2
60°	97.2	111.9	125.2	114.6	98.6
62.5°	71.9	86.6	102.6	87.9	73.3
65°	53.3	63.9	79.9	63.9	54.6
67.5°	40.0	46.6	59.9	48.0	40.0
70°	29.3	34.6	40.0	34.6	29.3
72.5°	20.0	24.0	24.0	24.0	20.0
75°	10.7	13.3	13.3	13.3	10.7
77.5°	1.3	4.0	5.3	4.0	1.3
80°	0.0	0.0	1.3	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)