

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: P238055

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SMDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM 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: 2310.8 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

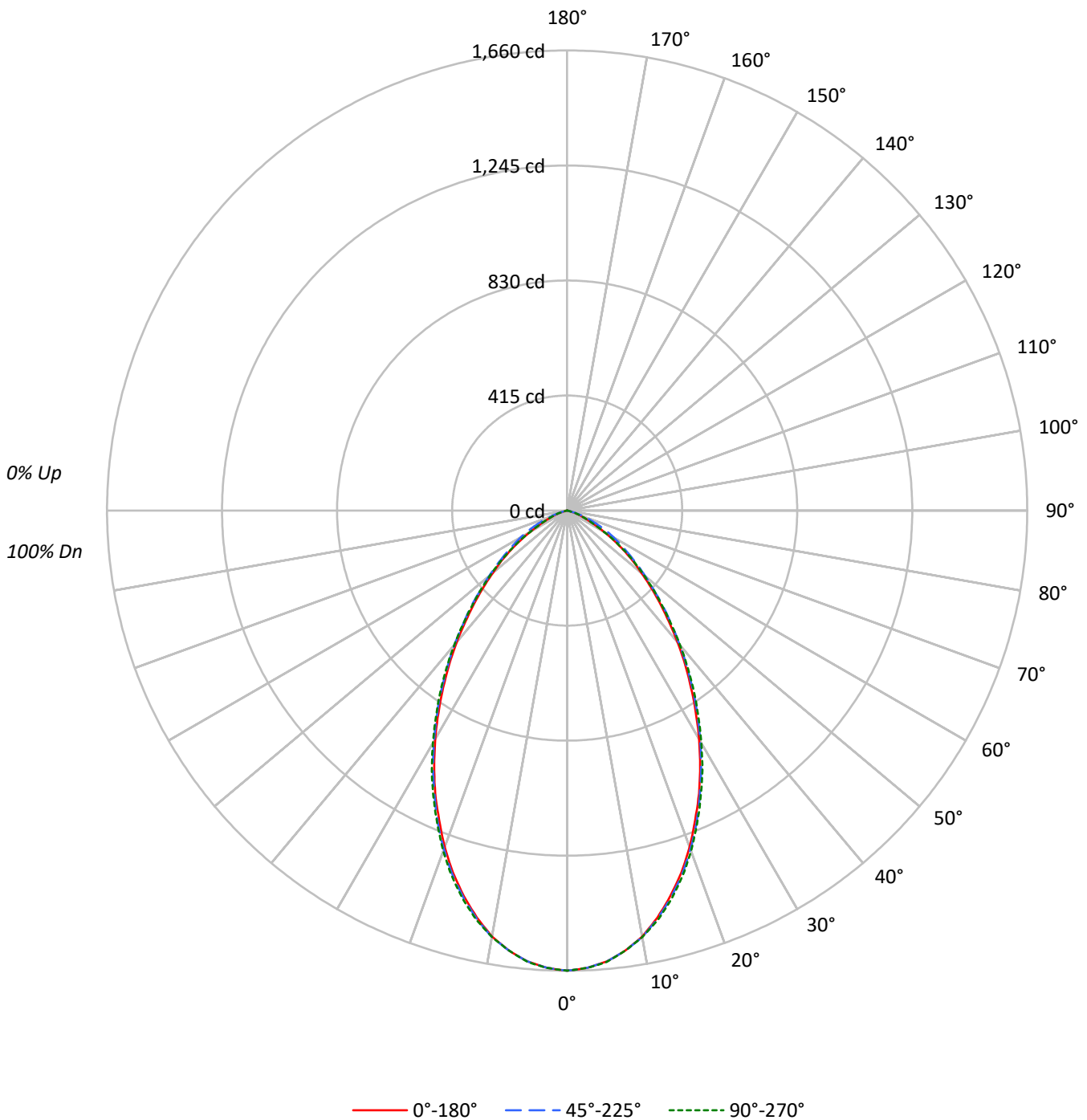
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238055

CATALOG NUMBER: PRS620D010-S6M12-64SMDH-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P238055

CATALOG NUMBER: PRS620D010-S6M12-64SMDH-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	112	108	105	103	109	106	103	101	102	100	98	98	97	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	88	82	77	85	80	76	82	78	75	80	76	73	72					72			
4	91	81	74	69	89	80	73	68	78	72	68	75	71	67	73	69	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52					52			
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44					44			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	45	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	71459	71459	71459
5°	70565	70565	70652
10°	68203	68290	68290
15°	64165	64441	64718
20°	59198	59578	59862
25°	53483	53782	54177
30°	47295	47713	48125
35°	40940	41597	41923
40°	34791	35494	35606
45°	28837	29848	29471
50°	23377	24630	24074
55°	18556	20268	18864
60°	13235	16637	13235
65°	8680	12694	8884
70°	5753	7843	6017
75°	2761	3460	2761
80°	0	521	0
85°	0	0	0



TEST NUMBER: P238055

CATALOG NUMBER: PRS620D010-S6M12-64SMDH-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	6.6
10°-20°	404.4	17.5
20°-30°	519.0	22.5
30°-40°	493.3	21.3
40°-50°	376.7	16.3
50°-60°	235.4	10.2
60°-70°	105.1	4.5
70°-80°	23.2	1.0
80°-90°	0.1	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°	1077.0	46.6
0°-40°	1570.3	68.0
0°-60°	2182.4	94.4
0°-90°	2310.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2310.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1660	1660	1660	1660	1660	
5°	1633	1633	1633	1635	1635	154
15°	1440	1442	1446	1450	1452	403
25°	1126	1128	1132	1136	1140	515
35°	779	787	791	794	798	487
45°	474	484	490	492	484	367
55°	247	262	270	266	251	222
65°	85	98	125	100	87	89
75°	17	21	21	21	17	19
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238055

CATALOG NUMBER: PRS620D010-S6M12-64SMDH-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1659.7	1659.7	1659.7	1659.7	1659.7
2.5°	1651.4	1651.4	1651.4	1651.4	1651.4
5°	1632.7	1632.7	1632.7	1634.7	1634.7
7.5°	1601.5	1601.5	1601.5	1603.6	1601.5
10°	1560.0	1560.0	1562.0	1562.0	1562.0
12.5°	1503.9	1506.0	1508.0	1510.1	1512.2
15°	1439.5	1441.6	1445.7	1449.9	1451.9
17.5°	1368.9	1368.9	1377.2	1383.4	1383.4
20°	1292.0	1294.1	1300.3	1302.4	1306.5
22.5°	1206.8	1213.1	1219.3	1221.4	1223.5
25°	1125.8	1127.9	1132.1	1136.2	1140.4
27.5°	1038.6	1040.7	1046.9	1049.0	1057.3
30°	951.3	955.5	959.7	963.8	968.0
32.5°	864.1	868.3	874.5	876.6	880.7
35°	778.9	787.3	791.4	793.5	797.6
37.5°	697.9	706.2	708.3	714.5	714.5
40°	619.0	627.3	631.5	635.6	633.5
42.5°	542.1	552.5	556.7	562.9	556.7
45°	473.6	484.0	490.2	492.3	484.0
47.5°	409.2	421.7	423.7	425.8	421.7
50°	349.0	361.4	367.7	369.7	359.4
52.5°	299.1	309.5	315.7	313.7	305.3
55°	247.2	261.7	270.0	265.9	251.3
57.5°	199.4	216.0	228.5	218.1	203.6
60°	153.7	172.4	193.2	176.6	153.7
62.5°	114.2	132.9	159.9	132.9	114.2
65°	85.2	97.6	124.6	99.7	87.2
67.5°	62.3	72.7	93.5	72.7	64.4
70°	45.7	54.0	62.3	54.0	47.8
72.5°	31.2	37.4	37.4	37.4	31.2
75°	16.6	20.8	20.8	20.8	16.6
77.5°	2.1	6.2	8.3	6.2	2.1
80°	0.0	0.0	2.1	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)