

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: P238010

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SMDMW-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2348.2 lumens
Efficiency: N/A
Efficacy: 117.4 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

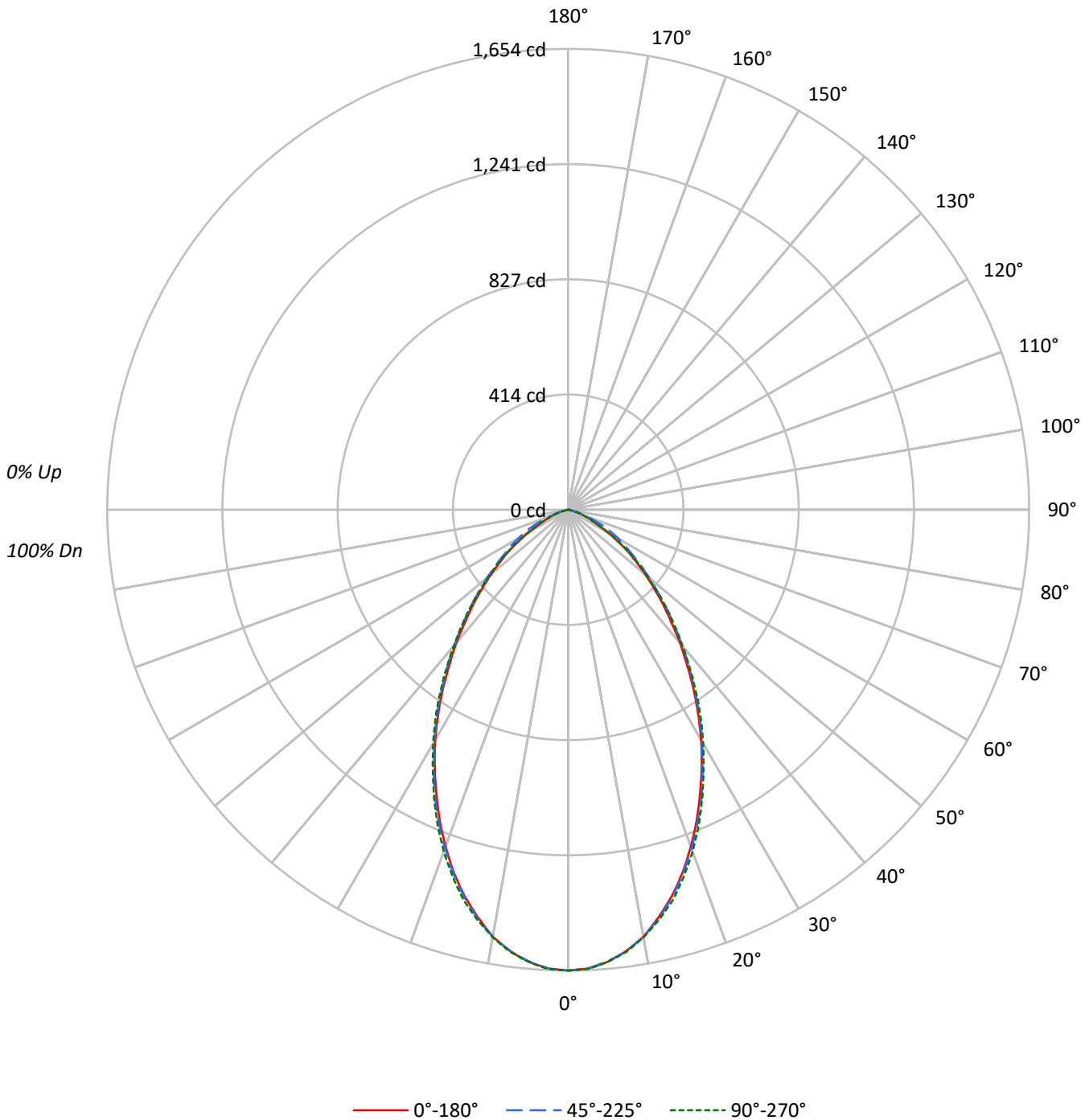
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	60	71	65	60	69	64	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	71214	71214	71214
5°	70410	70319	70410
10°	68041	68041	68133
15°	64000	64187	64651
20°	58932	59221	59789
25°	53207	53801	54096
30°	47419	47728	48140
35°	41176	41613	42049
40°	35151	35735	35853
45°	29355	30238	30238
50°	24221	25333	24777
55°	19494	21056	19967
60°	14312	17894	14673
65°	9740	14181	9954
70°	7062	9152	7062
75°	4142	4841	3810
80°	1041	1537	1041
85°	1037	1037	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	6.5
10°-20°	403.1	17.2
20°-30°	517.6	22.0
30°-40°	494.6	21.1
40°-50°	383.0	16.3
50°-60°	246.3	10.5
60°-70°	116.8	5.0
70°-80°	31.2	1.3
80°-90°	2.4	0.1
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°	1073.9	45.7
0°-40°	1568.5	66.8
0°-60°	2197.9	93.6
0°-90°	2348.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2348.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1629	1629	1627	1629	1629	153
15°	1436	1438	1440	1446	1450	402
25°	1120	1122	1132	1134	1139	514
35°	783	785	792	796	800	489
45°	482	492	497	501	497	373
55°	260	274	280	278	266	232
65°	96	110	139	110	98	100
75°	25	29	29	29	23	27
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.0	1654.0	1654.0	1654.0	1654.0
2.5°	1647.8	1647.8	1647.8	1647.8	1649.9
5°	1629.1	1629.1	1627.0	1629.1	1629.1
7.5°	1597.9	1597.9	1597.9	1600.0	1600.0
10°	1556.3	1556.3	1556.3	1558.4	1558.4
12.5°	1498.2	1500.2	1502.3	1506.5	1506.5
15°	1435.8	1437.9	1440.0	1446.2	1450.4
17.5°	1365.2	1367.3	1369.3	1377.6	1379.7
20°	1286.2	1286.2	1292.5	1302.8	1304.9
22.5°	1205.2	1207.3	1213.5	1217.6	1223.9
25°	1120.0	1122.1	1132.5	1134.5	1138.7
27.5°	1036.9	1036.9	1043.1	1047.3	1051.4
30°	953.8	953.8	960.0	962.1	968.3
32.5°	866.5	868.6	874.8	879.0	885.2
35°	783.4	785.4	791.7	795.8	800.0
37.5°	698.2	708.6	712.7	716.9	716.9
40°	625.4	631.7	635.8	642.1	637.9
42.5°	546.5	561.0	563.1	569.3	565.2
45°	482.1	492.5	496.6	500.8	496.6
47.5°	417.7	430.1	434.3	436.4	430.1
50°	361.6	371.9	378.2	378.2	369.9
52.5°	307.5	320.0	326.2	326.2	317.9
55°	259.7	274.3	280.5	278.4	266.0
57.5°	209.9	228.6	243.1	232.7	216.1
60°	166.2	187.0	207.8	189.1	170.4
62.5°	124.7	145.5	172.5	147.5	126.8
65°	95.6	110.1	139.2	110.1	97.7
67.5°	74.8	83.1	103.9	83.1	74.8
70°	56.1	62.3	72.7	62.3	56.1
72.5°	39.5	45.7	47.8	45.7	39.5
75°	24.9	29.1	29.1	29.1	22.9
77.5°	8.3	12.5	16.6	12.5	8.3
80°	4.2	4.2	6.2	4.2	4.2
82.5°	4.2	4.2	4.2	4.2	4.2
85°	2.1	2.1	2.1	2.1	2.1
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)