

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: P238184

Luminaire Tested: **PRS615D010-S6M12-61SNDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SNDMW-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1460.2 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.87
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

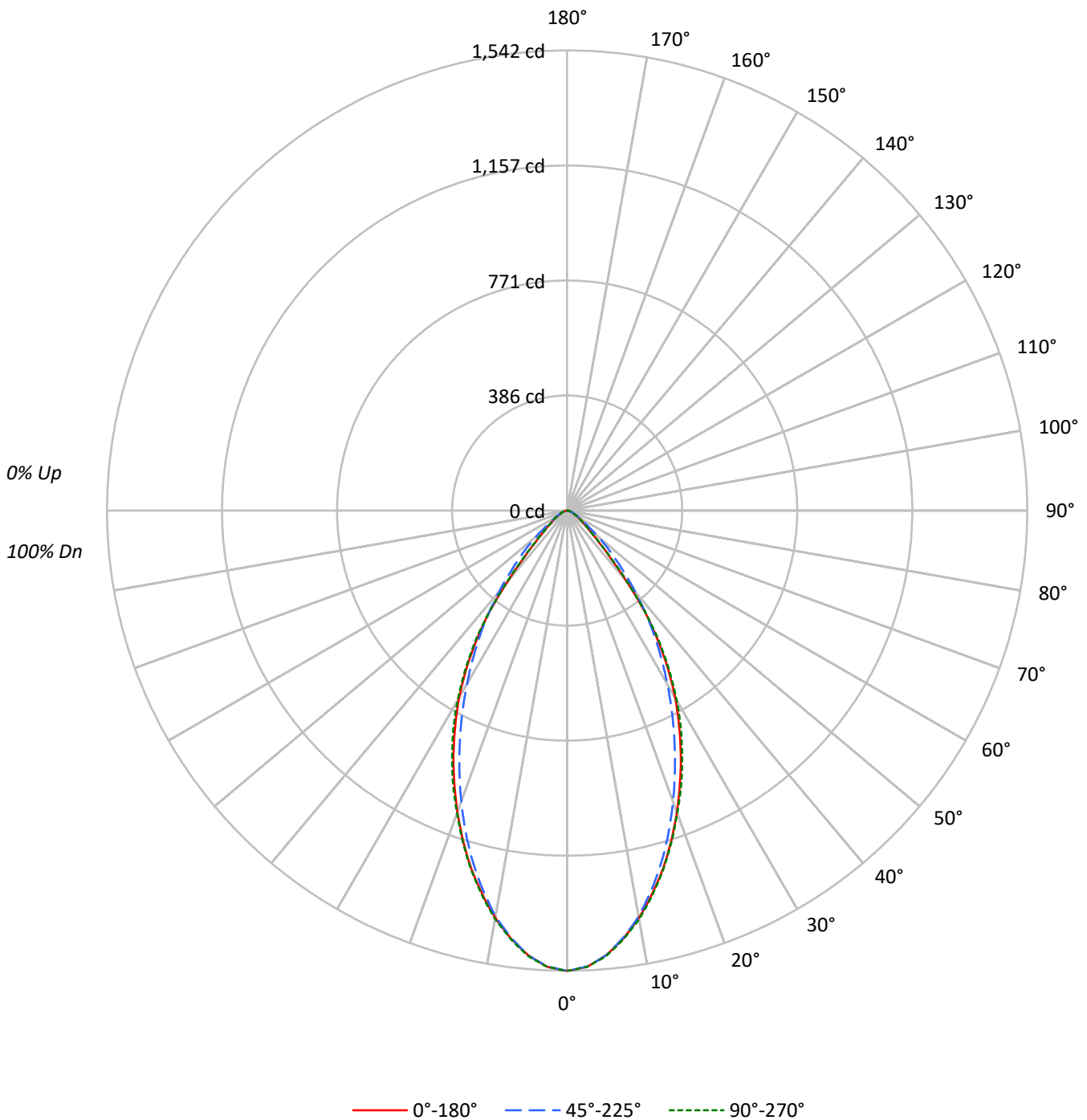
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60
7	80	70	63	59	78	69	63	58	68	62	58	66	61	58	65	61	57	56
8	76	65	59	54	74	65	58	54	64	58	54	62	57	54	61	57	53	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49
10	68	58	51	47	67	57	51	47	56	51	47	56	51	47	55	50	47	45

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	66405	66405	66405
5°	64653	64653	64770
10°	60600	60368	60771
15°	55353	54408	55469
20°	49255	47496	49434
25°	42827	40438	43331
30°	36000	33370	36527
35°	27831	26722	28457
40°	17412	19942	17783
45°	9188	13865	9353
50°	5761	9043	5854
55°	4271	5270	4369
60°	3195	3651	3195
65°	2425	2832	2425
70°	2165	2329	2165
75°	1980	1980	1980
80°	1636	1636	1636
85°	1284	1284	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	9.5
10°-20°	343.0	23.5
20°-30°	401.7	27.5
30°-40°	320.9	22.0
40°-50°	152.6	10.4
50°-60°	60.0	4.1
60°-70°	26.7	1.8
70°-80°	12.7	0.9
80°-90°	3.4	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°	883.9	60.5
0°-40°	1204.8	82.5
0°-60°	1417.3	97.1
0°-90°	1460.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1460.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1496	1496	1496	1497	1499	139
15°	1242	1228	1221	1231	1244	346
25°	902	875	851	880	912	412
35°	530	510	508	516	541	325
45°	151	181	228	184	154	128
55°	57	64	70	65	58	53
65°	24	25	28	25	24	25
75°	12	12	12	12	12	13
85°	3	3	3	3	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1542.3	1542.3	1542.3	1542.3	1542.3
2.5°	1530.4	1530.4	1529.0	1530.4	1530.4
5°	1495.9	1495.9	1495.9	1497.3	1498.6
7.5°	1445.6	1445.6	1443.0	1447.0	1448.3
10°	1386.1	1382.1	1380.8	1383.4	1390.0
12.5°	1315.9	1309.3	1302.7	1310.6	1319.9
15°	1241.8	1228.5	1220.6	1231.2	1244.4
17.5°	1159.7	1142.5	1130.6	1146.4	1163.7
20°	1075.0	1056.4	1036.6	1059.1	1078.9
22.5°	987.6	963.8	943.9	970.4	998.2
25°	901.5	875.1	851.2	880.4	912.1
27.5°	812.8	783.7	759.9	791.7	826.1
30°	724.1	693.7	671.2	704.3	734.7
32.5°	628.8	598.4	587.8	609.0	638.1
35°	529.5	509.7	508.4	516.3	541.4
37.5°	427.6	425.0	428.9	430.2	430.2
40°	309.8	337.6	354.8	344.2	316.4
42.5°	214.5	252.9	284.6	256.8	221.1
45°	150.9	181.4	227.7	184.0	153.6
47.5°	109.9	133.7	180.0	135.0	111.2
50°	86.0	100.6	135.0	99.3	87.4
52.5°	70.2	79.4	96.6	79.4	71.5
55°	56.9	63.5	70.2	64.9	58.2
57.5°	47.7	51.6	53.0	53.0	47.7
60°	37.1	41.0	42.4	41.0	37.1
62.5°	27.8	31.8	34.4	33.1	27.8
65°	23.8	25.2	27.8	25.2	23.8
67.5°	21.2	21.2	22.5	21.2	21.2
70°	17.2	18.5	18.5	18.5	17.2
72.5°	14.6	14.6	14.6	14.6	14.6
75°	11.9	11.9	11.9	11.9	11.9
77.5°	9.3	9.3	9.3	9.3	9.3
80°	6.6	6.6	6.6	7.9	6.6
82.5°	5.3	5.3	5.3	5.3	5.3
85°	2.6	2.6	2.6	2.6	2.6
87.5°	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)