

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: P238289

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-23)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SMDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1412.6 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.87 / 0.9
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

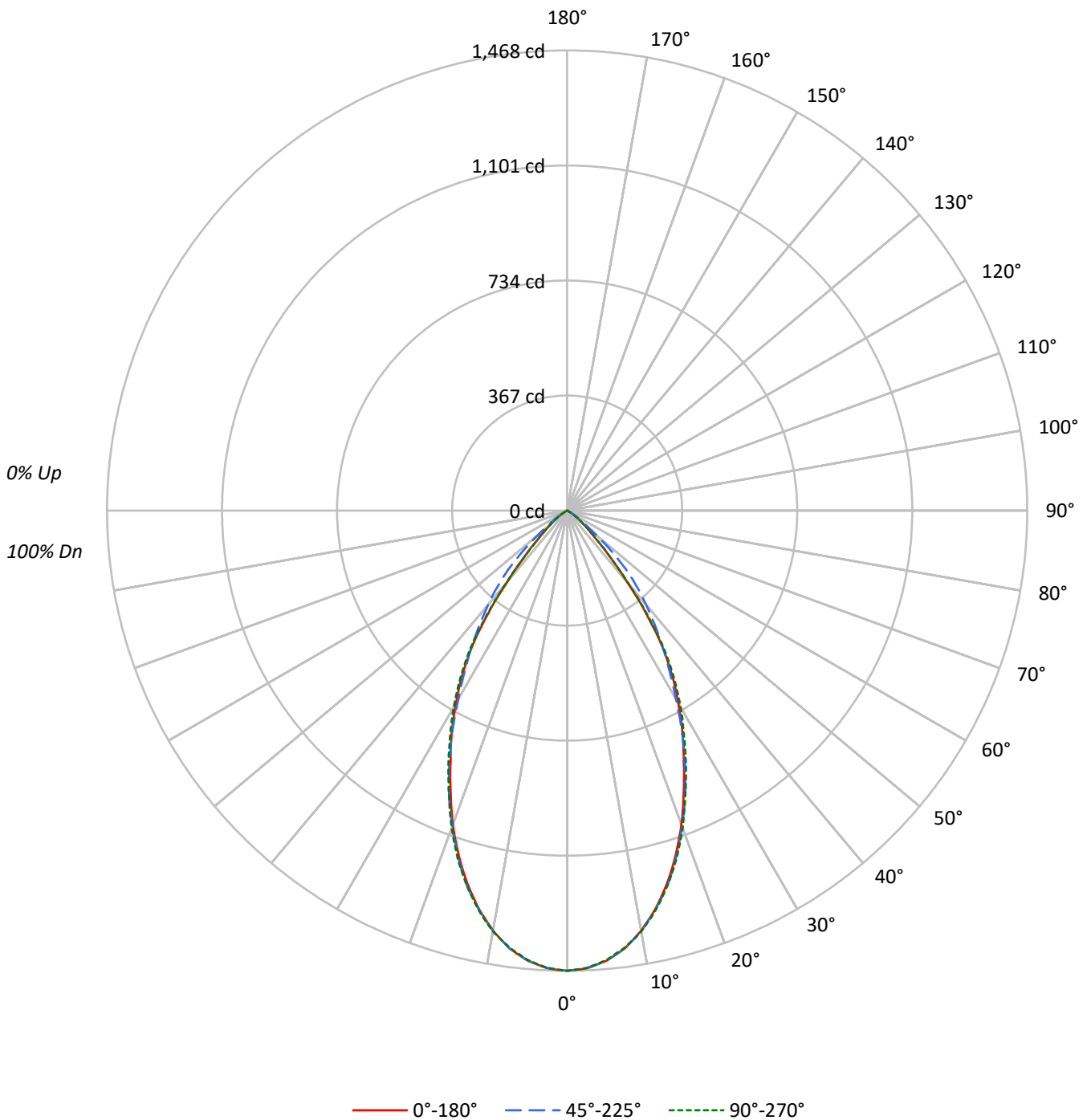
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	100	100	100	100		
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86	86	86	86	86	86	86		
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67	67	67	67		
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62	62	62	62	62	62	62		
7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58	58	58	58	58	58	58		
8	77	67	60	56	76	66	60	56	65	60	56	64	59	55	63	59	55	54	54	54	54	54	54	54		
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	63219	63219	63219
5°	62315	62259	62198
10°	59503	59560	59621
15°	54885	55179	55179
20°	48834	49077	49379
25°	41825	42205	42580
30°	35279	34493	36005
35°	27768	27905	28394
40°	16890	21954	17188
45°	8543	16124	8707
50°	4702	8158	4702
55°	2582	3378	2680
60°	680	1481	680
65°	0	540	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	9.6
10°-20°	344.2	24.4
20°-30°	406.4	28.8
30°-40°	331.8	23.5
40°-50°	152.3	10.8
50°-60°	39.6	2.8
60°-70°	3.3	0.2
70°-80°	0.0	0.0
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°	885.6	62.7
0°-40°	1217.4	86.2
0°-60°	1409.2	99.8
0°-90°	1412.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1412.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1468	1468	1468	1468	1468	
5°	1442	1442	1440	1440	1439	135
15°	1231	1234	1238	1239	1238	343
25°	880	879	888	894	896	404
35°	528	543	531	551	540	320
45°	140	173	265	175	143	120
55°	34	42	45	42	36	32
65°	0	0	5	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1468.3	1468.3	1468.3	1468.3	1468.3
2.5°	1461.6	1461.6	1460.3	1460.3	1460.3
5°	1441.8	1441.8	1440.5	1440.5	1439.1
7.5°	1408.7	1408.7	1408.7	1407.4	1406.0
10°	1361.0	1361.0	1362.3	1362.3	1363.7
12.5°	1301.4	1302.8	1302.8	1305.4	1305.4
15°	1231.3	1233.9	1237.9	1239.2	1237.9
17.5°	1151.8	1154.5	1158.5	1163.8	1162.4
20°	1065.8	1067.1	1071.1	1079.0	1077.7
22.5°	971.8	974.4	985.0	987.7	985.0
25°	880.4	879.1	888.4	893.7	896.3
27.5°	797.0	790.4	791.7	799.7	807.6
30°	709.6	707.0	693.8	714.9	724.2
32.5°	623.6	624.9	607.7	630.2	635.5
35°	528.3	542.8	530.9	550.8	540.2
37.5°	414.4	454.1	458.1	460.7	425.0
40°	300.5	352.2	390.6	354.8	305.8
42.5°	209.2	251.6	329.7	256.8	207.9
45°	140.3	173.4	264.8	174.8	143.0
47.5°	98.0	116.5	192.0	117.8	98.0
50°	70.2	80.8	121.8	82.1	70.2
52.5°	51.6	58.3	74.1	58.3	51.6
55°	34.4	42.4	45.0	42.4	35.7
57.5°	21.2	27.8	29.1	27.8	19.9
60°	7.9	14.6	17.2	14.6	7.9
62.5°	1.3	4.0	10.6	5.3	1.3
65°	0.0	0.0	5.3	0.0	0.0
67.5°	0.0	0.0	1.3	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
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)