

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: P253103

Luminaire Tested: **PRS610D010-S6M12-61SWDMB-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-61SWDMB-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 673.0 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

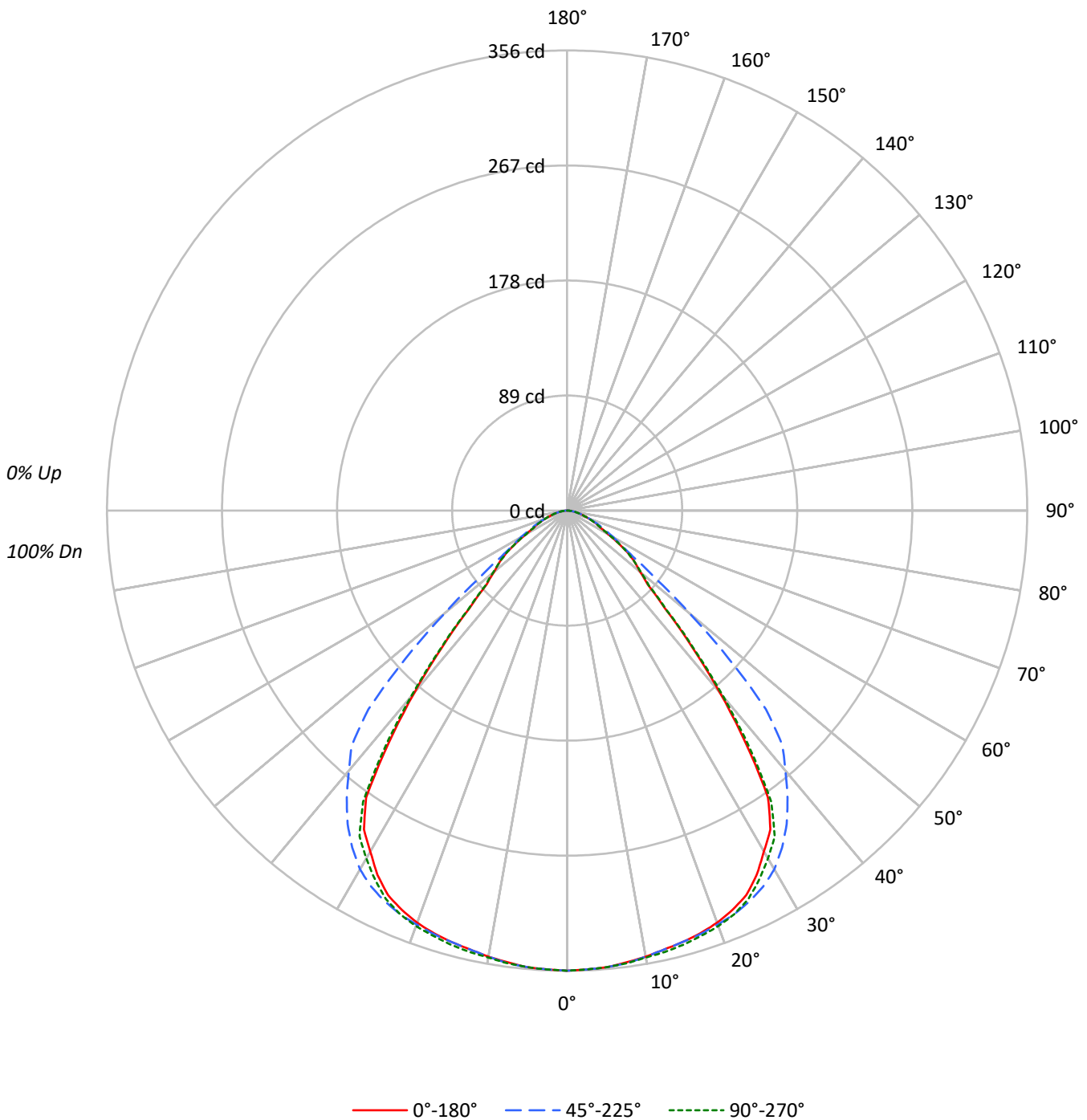
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253103

CATALOG NUMBER: PRS610D010-S6M12-61SWDMB-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P253103

CATALOG NUMBER: PRS610D010-S6M12-61SWDMB-4000K

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	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15328	15328	15328
5°	15326	15326	15326
10°	15319	15319	15350
15°	15405	15405	15499
20°	15546	15610	15675
25°	15587	15853	15753
30°	15139	15934	15447
35°	14244	15563	14465
40°	10336	14765	10572
45°	6491	13237	6619
50°	4950	8306	5037
55°	4339	4654	4339
60°	3178	3539	3178
65°	2628	2842	2628
70°	2190	2279	2190
75°	1847	1847	1847
80°	1562	1562	1562
85°	1383	1383	1383



TEST NUMBER: P253103

CATALOG NUMBER: PRS610D010-S6M12-61SWDDB-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	5.0
10°-20°	97.9	14.6
20°-30°	152.4	22.6
30°-40°	174.2	25.9
40°-50°	116.5	17.3
50°-60°	55.8	8.3
60°-70°	27.2	4.0
70°-80°	12.2	1.8
80°-90°	3.1	0.5
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°	284.1	42.2
0°-40°	458.2	68.1
0°-60°	630.5	93.7
0°-90°	673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	356	356	356	356	356	
5°	355	355	355	355	355	34
15°	346	346	346	347	348	98
25°	328	330	334	333	332	150
35°	271	286	296	290	275	161
45°	107	137	217	139	109	88
55°	58	62	62	63	58	50
65°	26	26	28	26	26	26
75°	11	11	11	11	11	12
85°	3	3	3	3	3	3
90°	0	0	0	0	0	



TEST NUMBER: P253103

CATALOG NUMBER: PRS610D010-S6M12-61SWDMB-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	356.0	356.0	356.0	356.0	356.0
2.5°	355.3	355.3	355.3	355.3	355.3
5°	354.6	354.6	354.6	354.6	354.6
7.5°	352.5	352.5	353.2	352.5	353.2
10°	350.4	350.4	350.4	351.1	351.1
12.5°	347.7	347.7	347.7	349.0	349.7
15°	345.6	345.6	345.6	347.0	347.7
17.5°	342.8	342.8	343.5	344.9	344.9
20°	339.3	340.0	340.7	342.1	342.1
22.5°	334.4	335.8	337.9	338.6	337.9
25°	328.1	330.2	333.7	333.0	331.6
27.5°	317.7	322.6	328.1	325.4	321.9
30°	304.5	312.1	320.5	314.9	310.7
32.5°	292.6	298.9	309.3	303.1	298.9
35°	271.0	286.3	296.1	290.5	275.2
37.5°	227.1	261.3	280.1	265.4	232.7
40°	183.9	220.2	262.7	222.9	188.1
42.5°	142.8	177.7	246.6	180.4	145.6
45°	106.6	137.3	217.4	139.3	108.7
47.5°	84.3	101.7	169.3	103.8	85.7
50°	73.9	80.8	124.0	82.2	75.2
52.5°	66.2	70.4	86.4	71.1	66.2
55°	57.8	62.0	62.0	62.7	57.8
57.5°	46.7	52.9	48.8	52.9	47.4
60°	36.9	41.8	41.1	41.8	36.9
62.5°	30.0	32.7	33.4	32.7	30.0
65°	25.8	26.5	27.9	26.5	25.8
67.5°	21.6	22.3	22.3	22.3	20.9
70°	17.4	18.1	18.1	18.1	17.4
72.5°	13.9	14.6	14.6	14.6	13.9
75°	11.1	11.1	11.1	11.1	11.1
77.5°	8.4	9.1	8.4	9.1	8.4
80°	6.3	6.3	6.3	6.3	6.3
82.5°	4.2	4.2	4.2	4.2	4.2
85°	2.8	2.8	2.8	2.8	2.8
87.5°	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)