

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: P253098

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253098
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
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 676.8 lumens
Efficiency: N/A
Efficacy: 67.7 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

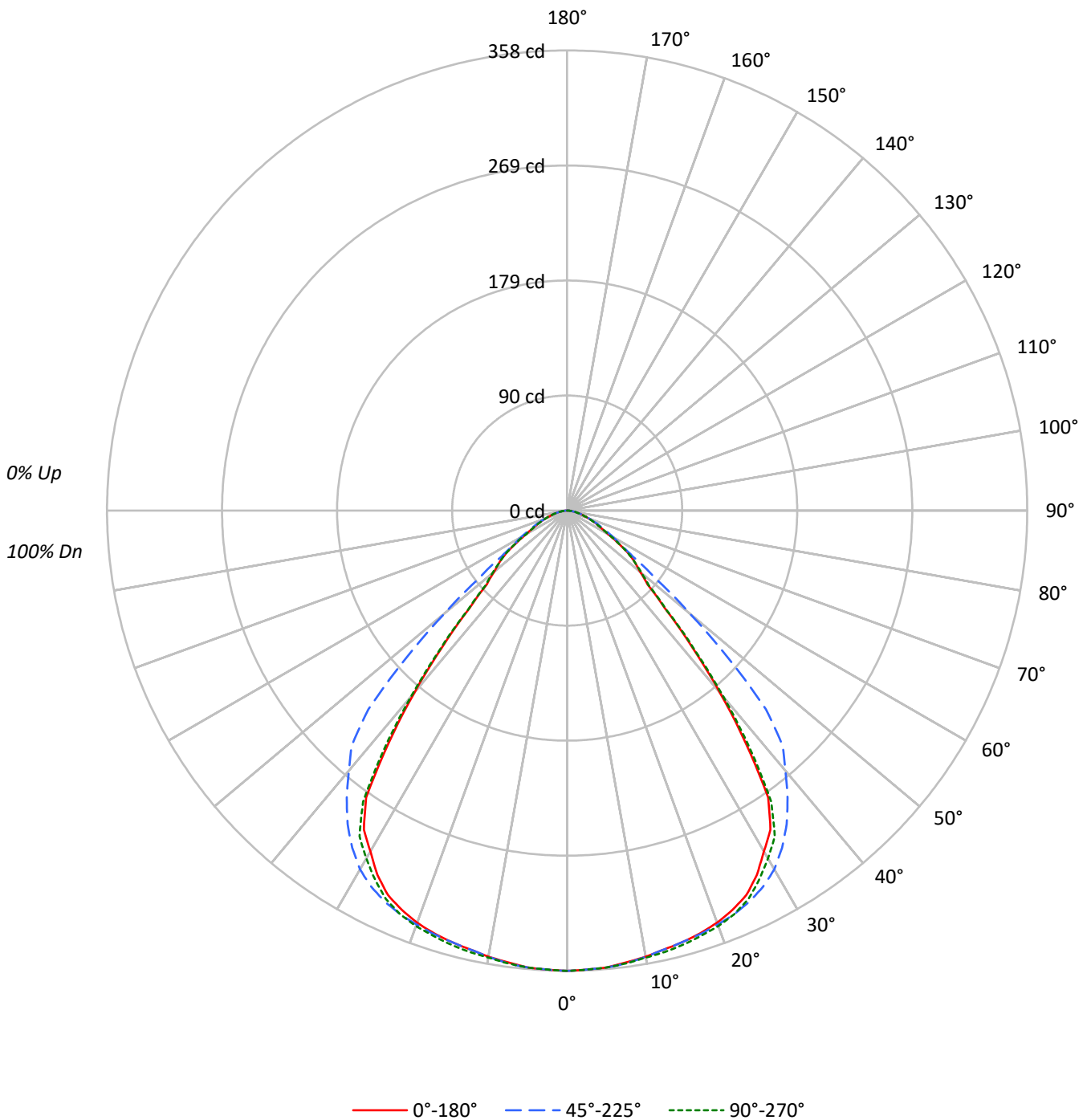
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	15418	15418	15418
5°	15417	15417	15417
10°	15407	15407	15437
15°	15490	15490	15583
20°	15633	15698	15762
25°	15677	15943	15843
30°	15223	16024	15536
35°	14328	15653	14549
40°	10398	14849	10634
45°	6527	13311	6655
50°	4977	8353	5071
55°	4369	4684	4369
60°	3195	3556	3195
65°	2639	2853	2639
70°	2203	2291	2203
75°	1863	1863	1863
80°	1562	1562	1562
85°	1383	1383	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.9	5.0
10°-20°	98.5	14.6
20°-30°	153.3	22.6
30°-40°	175.2	25.9
40°-50°	117.2	17.3
50°-60°	56.1	8.3
60°-70°	27.3	4.0
70°-80°	12.3	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°	285.7	42.2
0°-40°	460.8	68.1
0°-60°	634.1	93.7
0°-90°	676.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	676.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	358	358	358	358	358	
5°	357	357	357	357	357	34
15°	348	348	348	349	350	98
25°	330	332	336	335	334	151
35°	273	288	298	292	277	162
45°	107	138	219	140	109	89
55°	58	62	62	63	58	51
65°	26	27	28	27	26	26
75°	11	11	11	11	11	12
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°	358.1	358.1	358.1	358.1	358.1
2.5°	357.4	357.4	357.4	357.4	357.4
5°	356.7	356.7	356.7	356.7	356.7
7.5°	354.5	354.5	355.2	354.5	355.2
10°	352.4	352.4	352.4	353.1	353.1
12.5°	349.6	349.6	349.6	351.0	351.7
15°	347.5	347.5	347.5	348.9	349.6
17.5°	344.7	344.7	345.4	346.8	346.8
20°	341.2	341.9	342.6	344.0	344.0
22.5°	336.3	337.7	339.8	340.5	339.8
25°	330.0	332.1	335.6	334.9	333.5
27.5°	319.5	324.4	330.0	327.2	323.7
30°	306.2	313.9	322.3	316.7	312.5
32.5°	294.3	300.6	311.1	304.8	300.6
35°	272.6	288.0	297.8	292.2	276.8
37.5°	228.4	262.8	281.7	267.0	234.0
40°	185.0	221.4	264.2	224.2	189.2
42.5°	143.6	178.7	248.0	181.5	146.4
45°	107.2	138.0	218.6	140.1	109.3
47.5°	84.8	102.3	170.3	104.4	86.2
50°	74.3	81.3	124.7	82.7	75.7
52.5°	66.6	70.8	86.9	71.5	66.6
55°	58.2	62.4	62.4	63.1	58.2
57.5°	46.9	53.3	49.0	53.3	47.6
60°	37.1	42.0	41.3	42.0	37.1
62.5°	30.1	32.9	33.6	32.9	30.1
65°	25.9	26.6	28.0	26.6	25.9
67.5°	21.7	22.4	22.4	22.4	21.0
70°	17.5	18.2	18.2	18.2	17.5
72.5°	14.0	14.7	14.7	14.7	14.0
75°	11.2	11.2	11.2	11.2	11.2
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)