

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: P253063

Luminaire Tested: **PRS610D010-S6M12-61SWDH-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253063
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-S6M12-61SWDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 890.4 lumens
Efficiency: N/A
Efficacy: 89.0 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

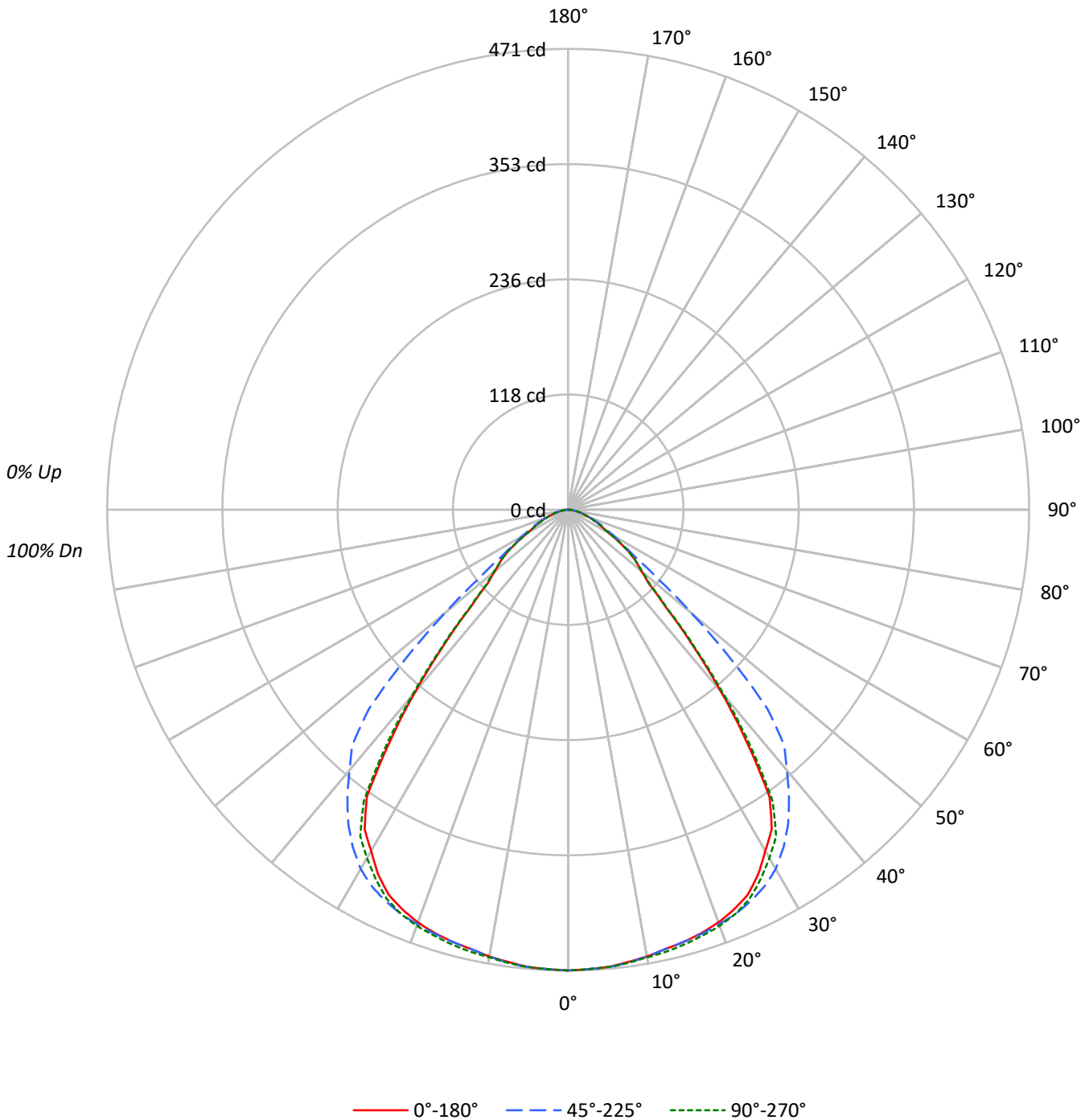
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253063

CATALOG NUMBER: PRS610D010-S6M12-61SWDH-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P253063

CATALOG NUMBER: PRS610D010-S6M12-61SWDH-3000K

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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51					51			
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42					42			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38					38			
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35					35			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20279	20279	20279
5°	20279	20279	20279
10°	20269	20269	20312
15°	20379	20379	20500
20°	20568	20651	20738
25°	20623	20974	20841
30°	20026	21080	20438
35°	18848	20588	19138
40°	13675	19531	13989
45°	8585	17512	8756
50°	6544	10992	6665
55°	5742	6155	5742
60°	4211	4684	4211
65°	3474	3759	3474
70°	2895	3021	2895
75°	2445	2445	2445
80°	2058	2058	2058
85°	1828	1828	1828



TEST NUMBER: P253063

CATALOG NUMBER: PRS610D010-S6M12-61SWDH-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	5.0
10°-20°	129.6	14.6
20°-30°	201.6	22.6
30°-40°	230.4	25.9
40°-50°	154.1	17.3
50°-60°	73.8	8.3
60°-70°	36.0	4.0
70°-80°	16.2	1.8
80°-90°	4.1	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°	375.8	42.2
0°-40°	606.2	68.1
0°-60°	834.1	93.7
0°-90°	890.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	890.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	471	471	471	471	471	
5°	469	469	469	469	469	45
15°	457	457	457	459	460	129
25°	434	437	442	441	439	199
35°	359	379	392	384	364	213
45°	141	182	288	184	144	117
55°	76	82	82	83	76	67
65°	34	35	37	35	34	34
75°	15	15	15	15	15	16
85°	4	4	4	4	4	4
90°	0	0	0	0	0	



TEST NUMBER: P253063

CATALOG NUMBER: PRS610D010-S6M12-61SWDH-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	471.0	471.0	471.0	471.0	471.0
2.5°	470.1	470.1	470.1	470.1	470.1
5°	469.2	469.2	469.2	469.2	469.2
7.5°	466.4	466.4	467.3	466.4	467.3
10°	463.6	463.6	463.6	464.6	464.6
12.5°	459.9	459.9	459.9	461.8	462.7
15°	457.2	457.2	457.2	459.0	459.9
17.5°	453.5	453.5	454.4	456.3	456.3
20°	448.9	449.8	450.7	452.6	452.6
22.5°	442.4	444.3	447.0	448.0	447.0
25°	434.1	436.9	441.5	440.6	438.7
27.5°	420.3	426.8	434.1	430.5	425.8
30°	402.8	412.9	424.0	416.6	411.1
32.5°	387.1	395.4	409.3	401.0	395.4
35°	358.6	378.8	391.7	384.4	364.1
37.5°	300.5	345.7	370.5	351.2	307.9
40°	243.3	291.3	347.5	295.0	248.9
42.5°	189.0	235.0	326.3	238.7	192.6
45°	141.0	181.6	287.6	184.3	143.8
47.5°	111.5	134.6	224.0	137.3	113.4
50°	97.7	106.9	164.1	108.8	99.5
52.5°	87.6	93.1	114.3	94.0	87.6
55°	76.5	82.0	82.0	83.0	76.5
57.5°	61.8	70.1	64.5	70.1	62.7
60°	48.9	55.3	54.4	55.3	48.9
62.5°	39.6	43.3	44.2	43.3	39.6
65°	34.1	35.0	36.9	35.0	34.1
67.5°	28.6	29.5	29.5	29.5	27.7
70°	23.0	24.0	24.0	24.0	23.0
72.5°	18.4	19.4	19.4	19.4	18.4
75°	14.7	14.7	14.7	14.7	14.7
77.5°	11.1	12.0	11.1	12.0	11.1
80°	8.3	8.3	8.3	8.3	8.3
82.5°	5.5	5.5	5.5	5.5	5.5
85°	3.7	3.7	3.7	3.7	3.7
87.5°	1.8	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)