

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: P253048

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253048
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-S6M12-61SWDC-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 930.1 lumens
Efficiency: N/A
Efficacy: 93.0 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

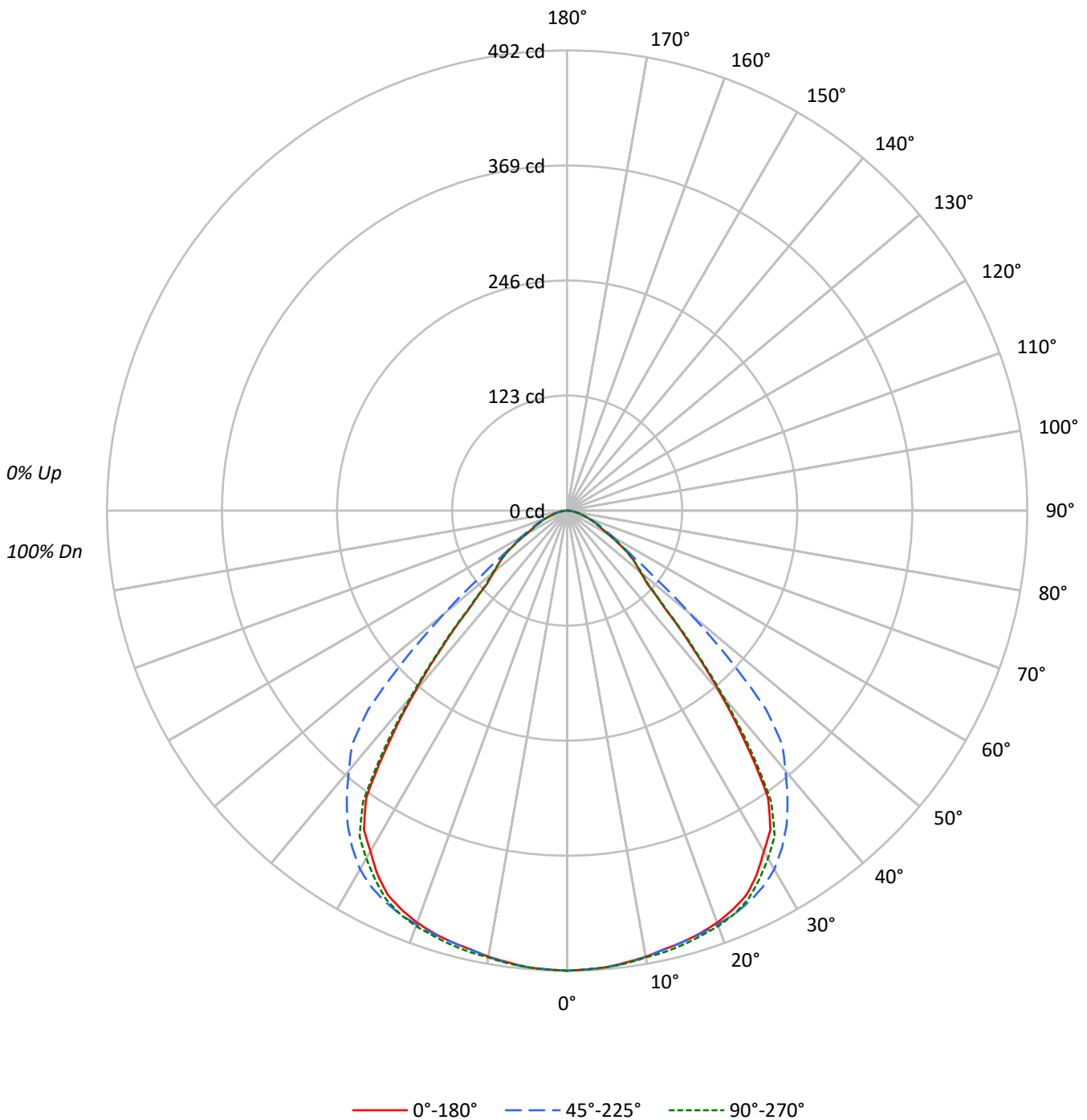
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	21183	21183	21183
5°	21178	21178	21178
10°	21174	21174	21213
15°	21284	21284	21414
20°	21484	21572	21659
25°	21544	21910	21772
30°	20916	22019	21348
35°	19684	21508	19989
40°	14287	20402	14608
45°	8969	18291	9146
50°	6839	11481	6966
55°	5998	6433	5998
60°	4392	4891	4392
65°	3627	3922	3627
70°	3034	3147	3034
75°	2562	2562	2562
80°	2157	2157	2157
85°	1927	1927	1927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	5.0
10°-20°	135.3	14.6
20°-30°	210.6	22.6
30°-40°	240.7	25.9
40°-50°	161.0	17.3
50°-60°	77.1	8.3
60°-70°	37.6	4.0
70°-80°	16.9	1.8
80°-90°	4.3	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°	392.5	42.2
0°-40°	633.2	68.1
0°-60°	871.3	93.7
0°-90°	930.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	930.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	490	490	490	490	490	47
15°	478	478	478	480	480	135
25°	454	456	461	460	458	208
35°	374	396	409	402	380	223
45°	147	190	300	193	150	122
55°	80	86	86	87	80	70
65°	36	37	38	37	36	36
75°	15	15	15	15	15	17
85°	4	4	4	4	4	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	492.0	492.0	492.0	492.0	492.0
2.5°	491.0	491.0	491.0	491.0	491.0
5°	490.0	490.0	490.0	490.0	490.0
7.5°	487.2	487.2	488.1	487.2	488.1
10°	484.3	484.3	484.3	485.2	485.2
12.5°	480.4	480.4	480.4	482.3	483.3
15°	477.5	477.5	477.5	479.5	480.4
17.5°	473.7	473.7	474.6	476.6	476.6
20°	468.9	469.8	470.8	472.7	472.7
22.5°	462.1	464.1	466.9	467.9	466.9
25°	453.5	456.4	461.2	460.2	458.3
27.5°	439.0	445.8	453.5	449.6	444.8
30°	420.7	431.3	442.9	435.2	429.4
32.5°	404.4	413.0	427.5	418.8	413.0
35°	374.5	395.7	409.2	401.5	380.3
37.5°	313.9	361.0	387.0	366.8	321.6
40°	254.2	304.2	363.0	308.1	259.9
42.5°	197.4	245.5	340.8	249.4	201.2
45°	147.3	189.7	300.4	192.6	150.2
47.5°	116.5	140.6	234.0	143.5	118.4
50°	102.1	111.7	171.4	113.6	104.0
52.5°	91.5	97.2	119.4	98.2	91.5
55°	79.9	85.7	85.7	86.6	79.9
57.5°	64.5	73.2	67.4	73.2	65.5
60°	51.0	57.8	56.8	57.8	51.0
62.5°	41.4	45.3	46.2	45.3	41.4
65°	35.6	36.6	38.5	36.6	35.6
67.5°	29.8	30.8	30.8	30.8	28.9
70°	24.1	25.0	25.0	25.0	24.1
72.5°	19.3	20.2	20.2	20.2	19.3
75°	15.4	15.4	15.4	15.4	15.4
77.5°	11.6	12.5	11.6	12.5	11.6
80°	8.7	8.7	8.7	8.7	8.7
82.5°	5.8	5.8	5.8	5.8	5.8
85°	3.9	3.9	3.9	3.9	3.9
87.5°	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)