

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: P253049

Luminaire Tested: **PRS615D010-S6M12-61SWDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253049
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: PRS615D010-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: 1238.3 lumens
Efficiency: N/A
Efficacy: 98.3 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

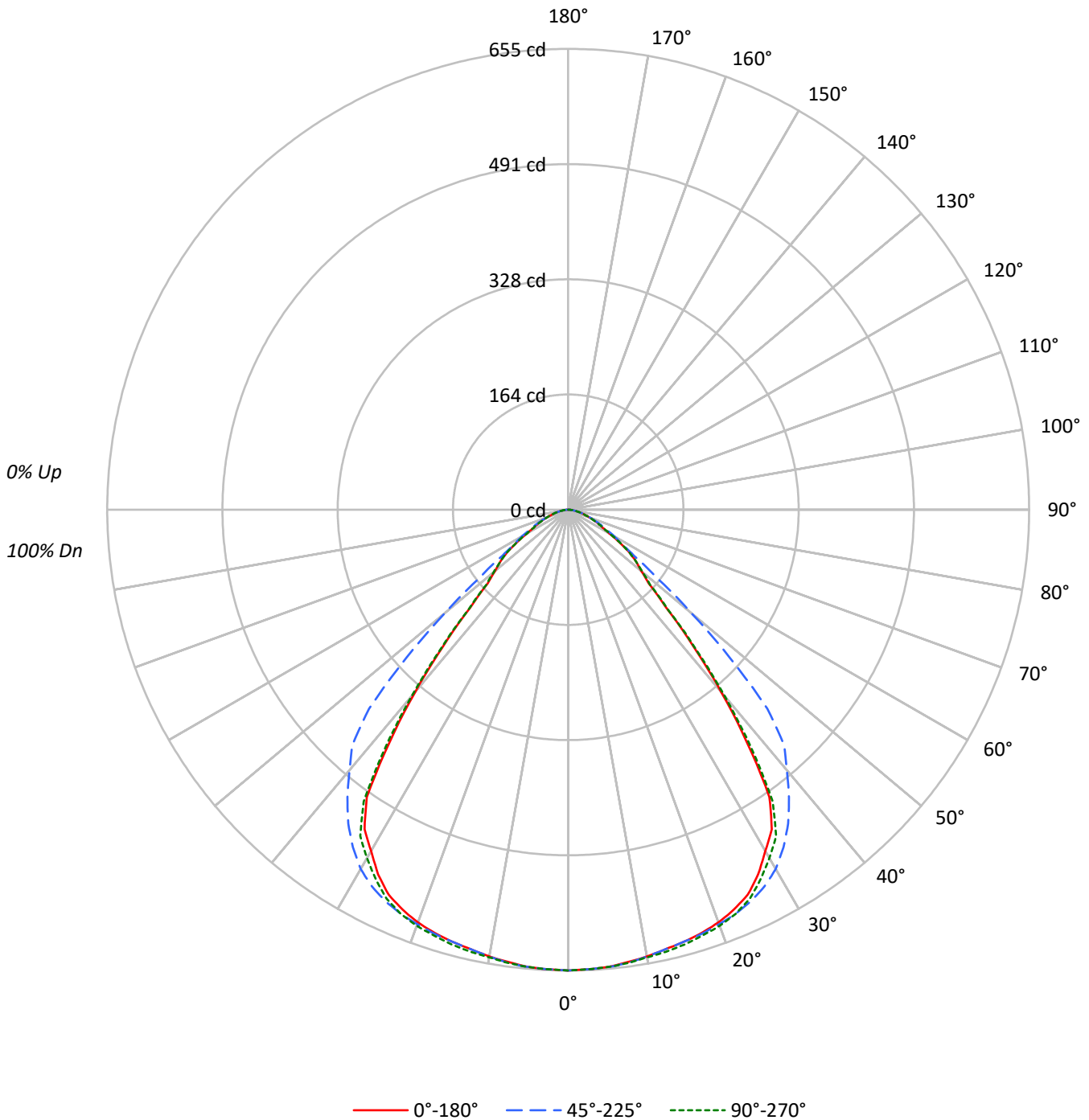
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	28201	28201	28201
5°	28201	28201	28201
10°	28191	28191	28247
15°	28340	28340	28514
20°	28605	28719	28838
25°	28685	29169	28989
30°	27851	29318	28423
35°	26207	28635	26612
40°	19020	27164	19453
45°	11941	24350	12178
50°	9103	15285	9270
55°	7987	8565	7987
60°	5847	6510	5847
65°	4829	5226	4829
70°	4028	4192	4028
75°	3410	3410	3410
80°	2851	2851	2851
85°	2519	2519	2519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	5.0
10°-20°	180.2	14.6
20°-30°	280.4	22.6
30°-40°	320.4	25.9
40°-50°	214.4	17.3
50°-60°	102.6	8.3
60°-70°	50.0	4.0
70°-80°	22.5	1.8
80°-90°	5.8	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°	522.6	42.2
0°-40°	843.1	68.1
0°-60°	1160.0	93.7
0°-90°	1238.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1238.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	652	652	652	652	652	62
15°	636	636	636	638	640	180
25°	604	608	614	613	610	276
35°	499	527	545	534	506	296
45°	196	252	400	256	200	163
55°	106	114	114	115	106	93
65°	47	49	51	49	47	47
75°	20	20	20	20	20	22
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	655.0	655.0	655.0	655.0	655.0
2.5°	653.8	653.8	653.8	653.8	653.8
5°	652.5	652.5	652.5	652.5	652.5
7.5°	648.6	648.6	649.9	648.6	649.9
10°	644.8	644.8	644.8	646.1	646.1
12.5°	639.7	639.7	639.7	642.2	643.5
15°	635.8	635.8	635.8	638.4	639.7
17.5°	630.7	630.7	632.0	634.5	634.5
20°	624.3	625.5	626.8	629.4	629.4
22.5°	615.3	617.9	621.7	623.0	621.7
25°	603.8	607.6	614.0	612.7	610.2
27.5°	584.5	593.5	603.8	598.6	592.2
30°	560.2	574.3	589.7	579.4	571.7
32.5°	538.4	549.9	569.1	557.6	549.9
35°	498.6	526.8	544.8	534.5	506.3
37.5°	417.9	480.7	515.3	488.4	428.1
40°	338.4	405.1	483.3	410.2	346.1
42.5°	262.8	326.9	453.8	332.0	267.9
45°	196.1	252.5	399.9	256.4	200.0
47.5°	155.1	187.2	311.5	191.0	157.7
50°	135.9	148.7	228.2	151.3	138.4
52.5°	121.8	129.5	159.0	130.8	121.8
55°	106.4	114.1	114.1	115.4	106.4
57.5°	85.9	97.4	89.7	97.4	87.2
60°	67.9	76.9	75.6	76.9	67.9
62.5°	55.1	60.2	61.5	60.2	55.1
65°	47.4	48.7	51.3	48.7	47.4
67.5°	39.7	41.0	41.0	41.0	38.5
70°	32.0	33.3	33.3	33.3	32.0
72.5°	25.6	26.9	26.9	26.9	25.6
75°	20.5	20.5	20.5	20.5	20.5
77.5°	15.4	16.7	15.4	16.7	15.4
80°	11.5	11.5	11.5	11.5	11.5
82.5°	7.7	7.7	7.7	7.7	7.7
85°	5.1	5.1	5.1	5.1	5.1
87.5°	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)