

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: P253029

Luminaire Tested: **PRS615D010-S6M12-64SWDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-64SWDMW-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1405.9 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

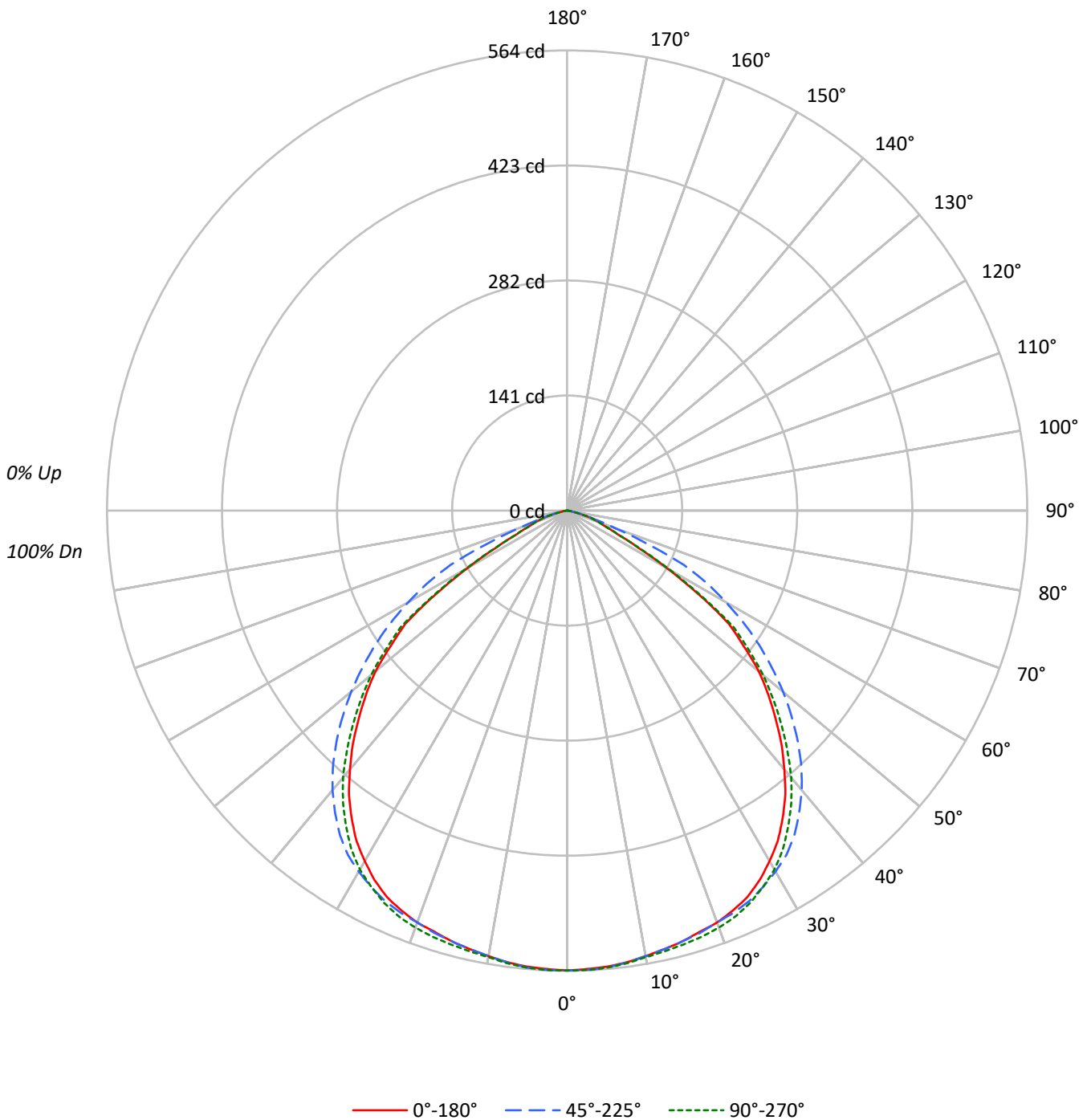
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90					88				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78					76				
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67					65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46					44				
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24270	24270	24270
5°	24251	24307	24307
10°	24243	24243	24299
15°	24360	24360	24538
20°	24618	24618	24921
25°	24832	25084	25207
30°	24669	25395	25261
35°	24204	25524	24830
40°	23280	25141	24022
45°	22000	24332	22639
50°	20564	23136	21006
55°	18181	21559	18676
60°	12193	19375	12538
65°	6877	16046	6877
70°	5161	7830	4998
75°	3078	3527	3294
80°	1314	1636	1314
85°	642	642	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	3.8
10°-20°	154.9	11.0
20°-30°	242.7	17.3
30°-40°	296.5	21.1
40°-50°	294.8	21.0
50°-60°	232.7	16.6
60°-70°	104.2	7.4
70°-80°	24.3	1.7
80°-90°	2.5	0.2
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°	451.0	32.1
0°-40°	747.5	53.2
0°-60°	1275.0	90.7
0°-90°	1405.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1405.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	561	561	562	562	562	53
15°	546	545	546	548	550	155
25°	523	524	528	529	531	240
35°	460	470	486	479	472	287
45°	361	378	400	388	372	279
55°	242	261	287	266	249	207
65°	68	89	158	90	68	76
75°	18	22	21	22	20	21
85°	1	1	1	1	1	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	563.7	563.7	563.7	563.7	563.7
2.5°	562.4	563.7	563.7	563.7	563.7
5°	561.1	561.1	562.4	562.4	562.4
7.5°	558.4	558.4	558.4	559.7	559.7
10°	554.5	554.5	554.5	555.8	555.8
12.5°	550.5	550.5	550.5	551.8	553.1
15°	546.5	545.2	546.5	547.8	550.5
17.5°	541.2	542.5	542.5	545.2	547.8
20°	537.3	537.3	537.3	541.2	543.9
22.5°	530.6	530.6	533.3	535.9	538.6
25°	522.7	524.0	528.0	529.3	530.6
27.5°	510.8	514.8	520.0	521.4	520.0
30°	496.2	501.5	510.8	509.5	508.1
32.5°	480.4	487.0	500.2	496.2	492.3
35°	460.5	469.8	485.6	479.0	472.4
37.5°	439.3	451.2	467.1	460.5	451.2
40°	414.2	428.7	447.3	438.0	427.4
42.5°	389.0	404.9	424.8	412.9	399.6
45°	361.3	378.5	399.6	387.7	371.8
47.5°	334.8	352.0	373.2	358.6	342.7
50°	307.0	322.9	345.4	329.5	313.6
52.5°	272.6	293.8	316.3	299.1	280.5
55°	242.2	260.7	287.2	266.0	248.8
57.5°	190.6	227.6	256.7	231.6	195.8
60°	141.6	177.3	225.0	182.6	145.6
62.5°	97.9	131.0	193.2	132.3	99.2
65°	67.5	88.7	157.5	90.0	67.5
67.5°	50.3	59.5	105.9	59.5	50.3
70°	41.0	43.7	62.2	43.7	39.7
72.5°	30.4	34.4	34.4	34.4	31.8
75°	18.5	22.5	21.2	22.5	19.8
77.5°	7.9	10.6	13.2	11.9	7.9
80°	5.3	5.3	6.6	5.3	5.3
82.5°	4.0	4.0	4.0	4.0	4.0
85°	1.3	1.3	1.3	1.3	1.3
87.5°	1.3	1.3	1.3	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)