

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: P253019

Luminaire Tested: **PRS615D010-S6M12-64SWDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253019
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-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1353.7 lumens
Efficiency: N/A
Efficacy: 107.4 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

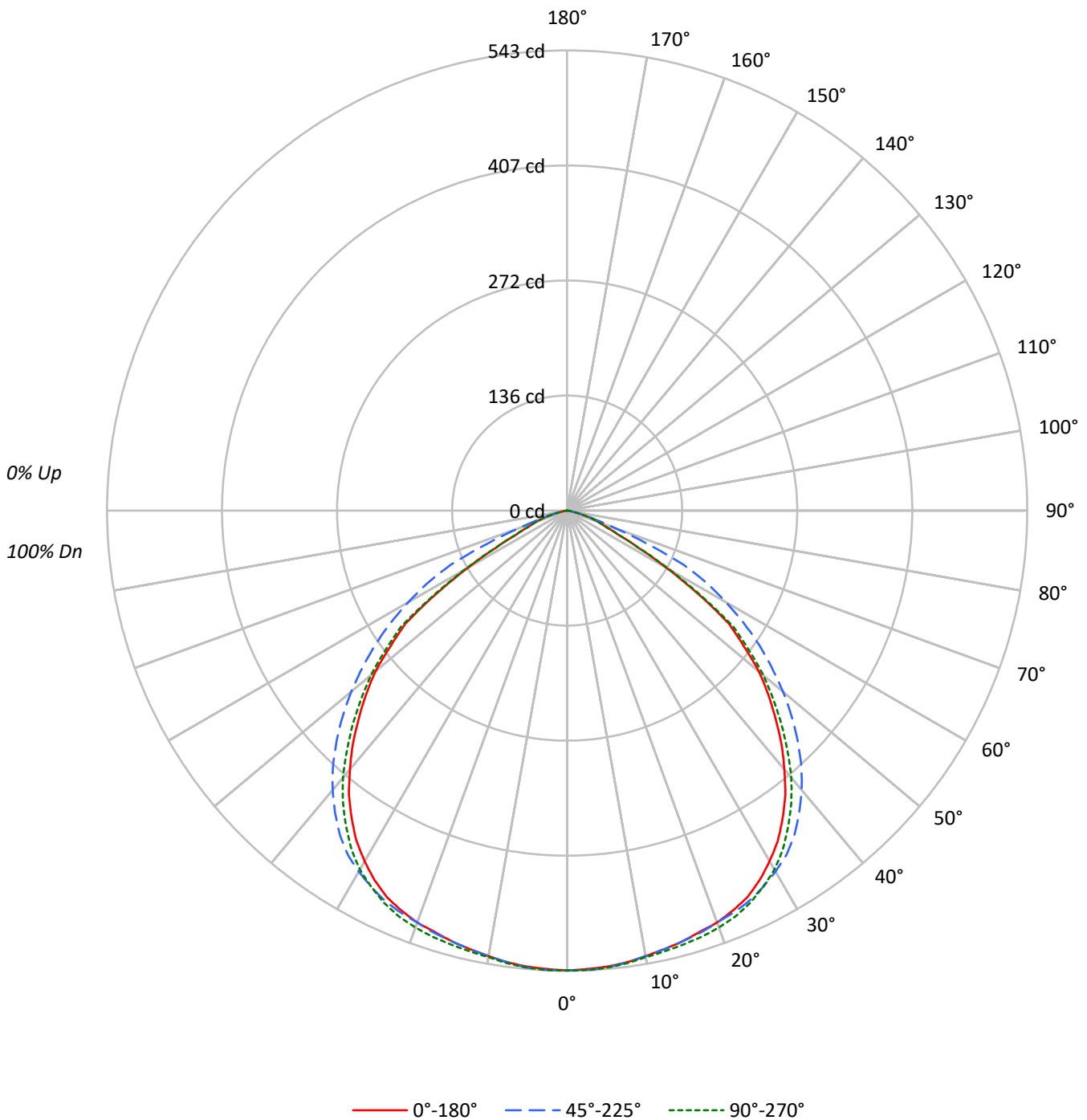
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23366	23366	23366
5°	23348	23404	23404
10°	23338	23338	23394
15°	23455	23455	23624
20°	23702	23702	23991
25°	23910	24148	24271
30°	23754	24451	24321
35°	23306	24578	23905
40°	22415	24202	23128
45°	21178	23430	21799
50°	19800	22272	20229
55°	17505	20756	17978
60°	11737	18652	12064
65°	6622	15445	6622
70°	4973	7541	4809
75°	2961	3394	3177
80°	1265	1587	1265
85°	642	642	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	3.8
10°-20°	149.1	11.0
20°-30°	233.7	17.3
30°-40°	285.5	21.1
40°-50°	283.8	21.0
50°-60°	224.1	16.6
60°-70°	100.3	7.4
70°-80°	23.4	1.7
80°-90°	2.4	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°	434.2	32.1
0°-40°	719.7	53.2
0°-60°	1227.6	90.7
0°-90°	1353.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1353.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	543	543	543	543	543	
5°	540	540	542	542	542	51
15°	526	525	526	528	530	149
25°	503	504	508	510	511	231
35°	443	452	468	461	455	277
45°	348	364	385	373	358	268
55°	233	251	276	256	240	199
65°	65	85	152	87	65	73
75°	18	22	20	22	19	20
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	542.7	542.7	542.7	542.7	542.7
2.5°	541.5	542.7	542.7	542.7	542.7
5°	540.2	540.2	541.5	541.5	541.5
7.5°	537.7	537.7	537.7	538.9	538.9
10°	533.8	533.8	533.8	535.1	535.1
12.5°	530.0	530.0	530.0	531.3	532.6
15°	526.2	524.9	526.2	527.5	530.0
17.5°	521.1	522.4	522.4	524.9	527.5
20°	517.3	517.3	517.3	521.1	523.6
22.5°	510.9	510.9	513.4	516.0	518.5
25°	503.3	504.5	508.3	509.6	510.9
27.5°	491.8	495.6	500.7	502.0	500.7
30°	477.8	482.9	491.8	490.5	489.2
32.5°	462.5	468.9	481.6	477.8	473.9
35°	443.4	452.3	467.6	461.2	454.8
37.5°	423.0	434.5	449.7	443.4	434.5
40°	398.8	412.8	430.6	421.7	411.5
42.5°	374.6	389.9	409.0	397.5	384.8
45°	347.8	364.4	384.8	373.3	358.0
47.5°	322.3	338.9	359.3	345.3	330.0
50°	295.6	310.9	332.5	317.2	302.0
52.5°	262.5	282.8	304.5	287.9	270.1
55°	233.2	251.0	276.5	256.1	239.5
57.5°	183.5	219.1	247.2	223.0	188.6
60°	136.3	170.7	216.6	175.8	140.1
62.5°	94.3	126.1	186.0	127.4	95.6
65°	65.0	85.4	151.6	86.6	65.0
67.5°	48.4	57.3	101.9	57.3	48.4
70°	39.5	42.0	59.9	42.0	38.2
72.5°	29.3	33.1	33.1	33.1	30.6
75°	17.8	21.7	20.4	21.7	19.1
77.5°	7.6	10.2	12.7	11.5	7.6
80°	5.1	5.1	6.4	5.1	5.1
82.5°	3.8	3.8	3.8	3.8	3.8
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)