

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: P253044

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253044
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-S6M12-64SWDMB-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1275.9 lumens
Efficiency: N/A
Efficacy: 101.3 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

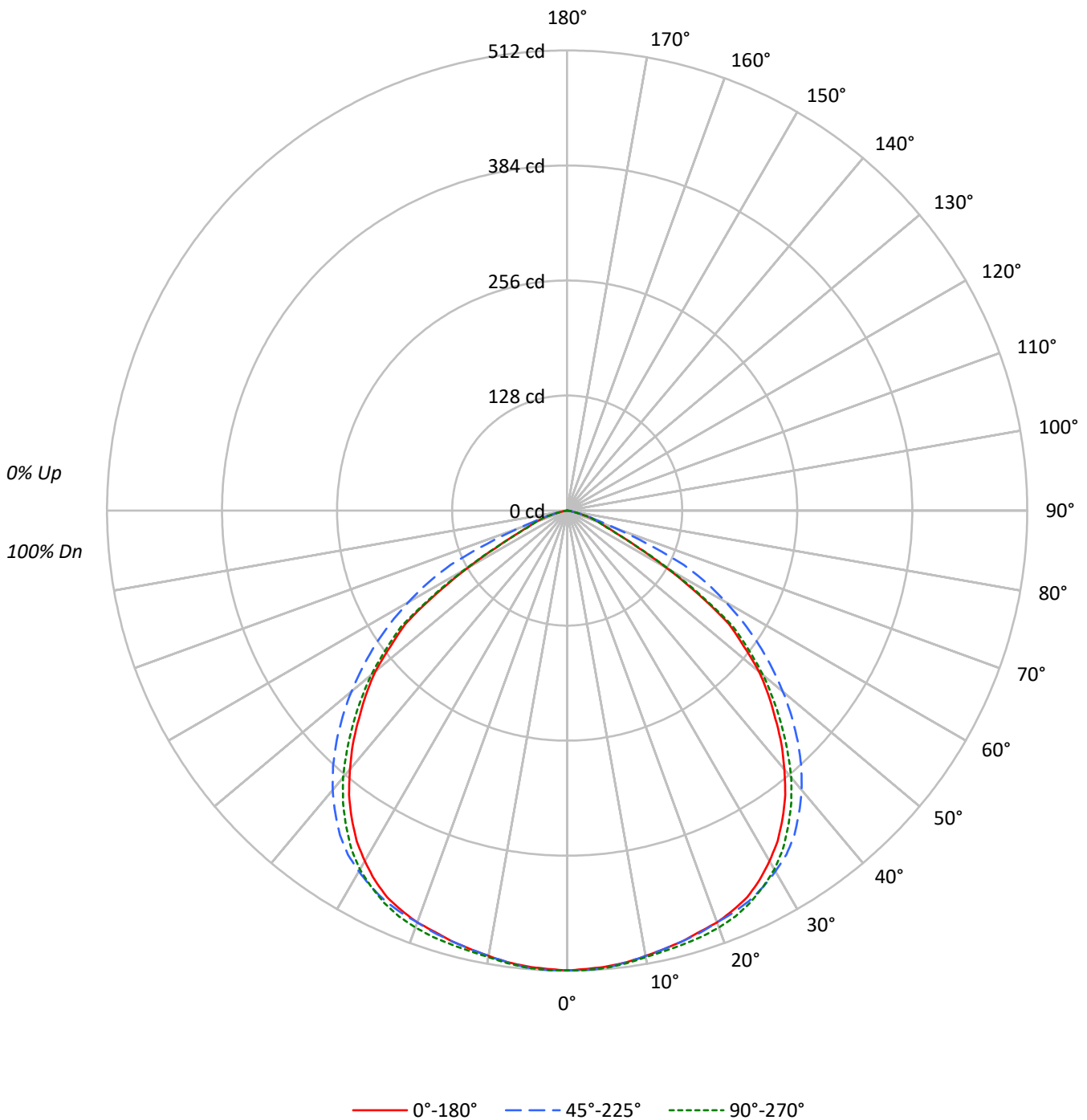
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	22027	22027	22027
5°	22008	22060	22060
10°	22000	22000	22052
15°	22109	22109	22269
20°	22341	22341	22616
25°	22537	22765	22879
30°	22387	23049	22924
35°	21965	23164	22533
40°	21128	22814	21802
45°	19960	22085	20550
50°	18661	20992	19063
55°	16499	19562	16950
60°	11065	17584	11375
65°	6235	14558	6235
70°	4683	7100	4532
75°	2795	3194	2994
80°	1190	1488	1190
85°	593	593	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	3.8
10°-20°	140.6	11.0
20°-30°	220.3	17.3
30°-40°	269.1	21.1
40°-50°	267.5	21.0
50°-60°	211.2	16.6
60°-70°	94.5	7.4
70°-80°	22.0	1.7
80°-90°	2.3	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°	409.3	32.1
0°-40°	678.4	53.2
0°-60°	1157.1	90.7
0°-90°	1275.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1275.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	512	512	512	512	512	
5°	509	509	510	510	510	48
15°	496	495	496	497	500	140
25°	474	476	479	480	482	218
35°	418	426	441	435	429	261
45°	328	344	363	352	338	253
55°	220	237	261	241	226	188
65°	61	80	143	82	61	69
75°	17	20	19	20	18	19
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°	511.6	511.6	511.6	511.6	511.6
2.5°	510.4	511.6	511.6	511.6	511.6
5°	509.2	509.2	510.4	510.4	510.4
7.5°	506.8	506.8	506.8	508.0	508.0
10°	503.2	503.2	503.2	504.4	504.4
12.5°	499.6	499.6	499.6	500.8	502.0
15°	496.0	494.8	496.0	497.2	499.6
17.5°	491.2	492.4	492.4	494.8	497.2
20°	487.6	487.6	487.6	491.2	493.6
22.5°	481.6	481.6	484.0	486.4	488.8
25°	474.4	475.6	479.2	480.4	481.6
27.5°	463.6	467.2	472.0	473.2	472.0
30°	450.3	455.1	463.6	462.3	461.1
32.5°	435.9	441.9	453.9	450.3	446.7
35°	417.9	426.3	440.7	434.7	428.7
37.5°	398.7	409.5	423.9	417.9	409.5
40°	375.9	389.1	405.9	397.5	387.9
42.5°	353.1	367.5	385.5	374.7	362.7
45°	327.8	343.5	362.7	351.9	337.5
47.5°	303.8	319.4	338.7	325.4	311.0
50°	278.6	293.0	313.4	299.0	284.6
52.5°	247.4	266.6	287.0	271.4	254.6
55°	219.8	236.6	260.6	241.4	225.8
57.5°	172.9	206.6	233.0	210.2	177.7
60°	128.5	160.9	204.2	165.7	132.1
62.5°	88.9	118.9	175.3	120.1	90.1
65°	61.2	80.5	142.9	81.7	61.2
67.5°	45.6	54.0	96.1	54.0	45.6
70°	37.2	39.6	56.4	39.6	36.0
72.5°	27.6	31.2	31.2	31.2	28.8
75°	16.8	20.4	19.2	20.4	18.0
77.5°	7.2	9.6	12.0	10.8	7.2
80°	4.8	4.8	6.0	4.8	4.8
82.5°	3.6	3.6	3.6	3.6	3.6
85°	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)