

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: P238054

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-64SMDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1417.4 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

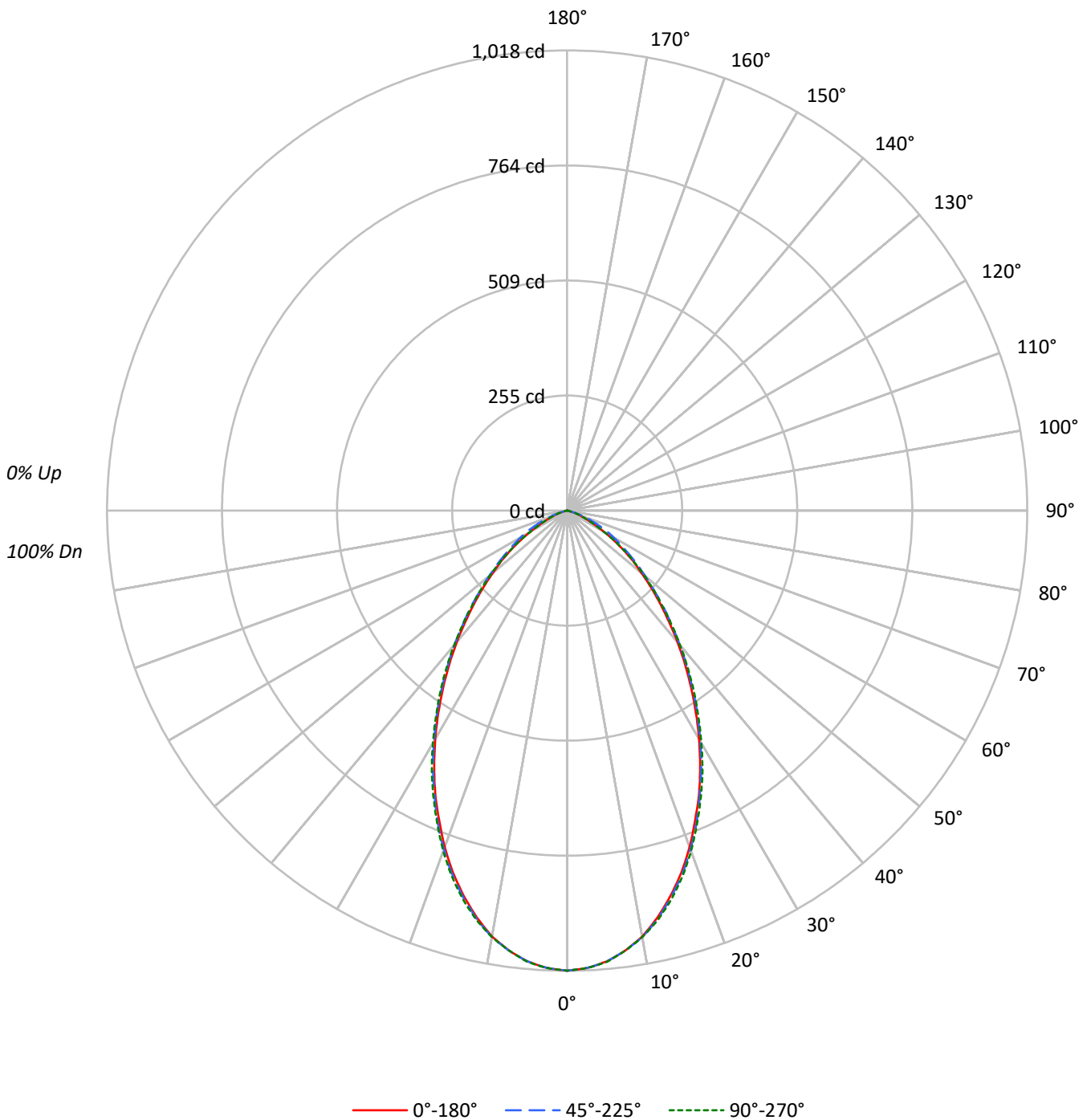
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72					72			
4	91	81	74	69	89	80	73	68	78	72	68	75	71	67	73	69	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52					52			
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44					44			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	45	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	43831	43831	43831
5°	43281	43281	43337
10°	41831	41888	41888
15°	39355	39529	39698
20°	36311	36545	36719
25°	32803	32989	33231
30°	29010	29263	29517
35°	25114	25513	25713
40°	21341	21768	21841
45°	17689	18310	18078
50°	14334	15105	14763
55°	11380	12431	11575
60°	8120	10204	8120
65°	5318	7784	5450
70°	3525	4809	3688
75°	1697	2113	1697
80°	0	322	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	6.6
10°-20°	248.1	17.5
20°-30°	318.3	22.5
30°-40°	302.6	21.3
40°-50°	231.0	16.3
50°-60°	144.4	10.2
60°-70°	64.5	4.5
70°-80°	14.2	1.0
80°-90°	0.0	0.0
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°	660.6	46.6
0°-40°	963.2	68.0
0°-60°	1338.6	94.4
0°-90°	1417.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1417.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1001	1001	1001	1003	1003	94
15°	883	884	887	889	891	247
25°	690	692	694	697	700	316
35°	478	483	485	487	489	299
45°	290	297	301	302	297	225
55°	152	160	166	163	154	136
65°	52	60	76	61	54	55
75°	10	13	13	13	10	12
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1018.0	1018.0	1018.0	1018.0	1018.0
2.5°	1012.9	1012.9	1012.9	1012.9	1012.9
5°	1001.4	1001.4	1001.4	1002.7	1002.7
7.5°	982.3	982.3	982.3	983.6	982.3
10°	956.8	956.8	958.1	958.1	958.1
12.5°	922.4	923.7	925.0	926.3	927.5
15°	882.9	884.2	886.8	889.3	890.6
17.5°	839.6	839.6	844.7	848.5	848.5
20°	792.5	793.7	797.6	798.8	801.4
22.5°	740.2	744.1	747.9	749.2	750.4
25°	690.5	691.8	694.4	696.9	699.5
27.5°	637.0	638.3	642.1	643.4	648.5
30°	583.5	586.1	588.6	591.2	593.7
32.5°	530.0	532.6	536.4	537.7	540.2
35°	477.8	482.9	485.4	486.7	489.2
37.5°	428.1	433.2	434.5	438.3	438.3
40°	379.7	384.8	387.3	389.9	388.6
42.5°	332.5	338.9	341.5	345.3	341.5
45°	290.5	296.9	300.7	302.0	296.9
47.5°	251.0	258.6	259.9	261.2	258.6
50°	214.0	221.7	225.5	226.8	220.4
52.5°	183.5	189.8	193.7	192.4	187.3
55°	151.6	160.5	165.6	163.1	154.2
57.5°	122.3	132.5	140.1	133.8	124.9
60°	94.3	105.7	118.5	108.3	94.3
62.5°	70.1	81.5	98.1	81.5	70.1
65°	52.2	59.9	76.4	61.2	53.5
67.5°	38.2	44.6	57.3	44.6	39.5
70°	28.0	33.1	38.2	33.1	29.3
72.5°	19.1	22.9	22.9	22.9	19.1
75°	10.2	12.7	12.7	12.7	10.2
77.5°	1.3	3.8	5.1	3.8	1.3
80°	0.0	0.0	1.3	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)