

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: P238063

Luminaire Tested: **PRS610D010-S6M12-64SMDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238063
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: PRS610D010-S6M12-64SMDH-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1105.7 lumens
Efficiency: N/A
Efficacy: 110.6 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

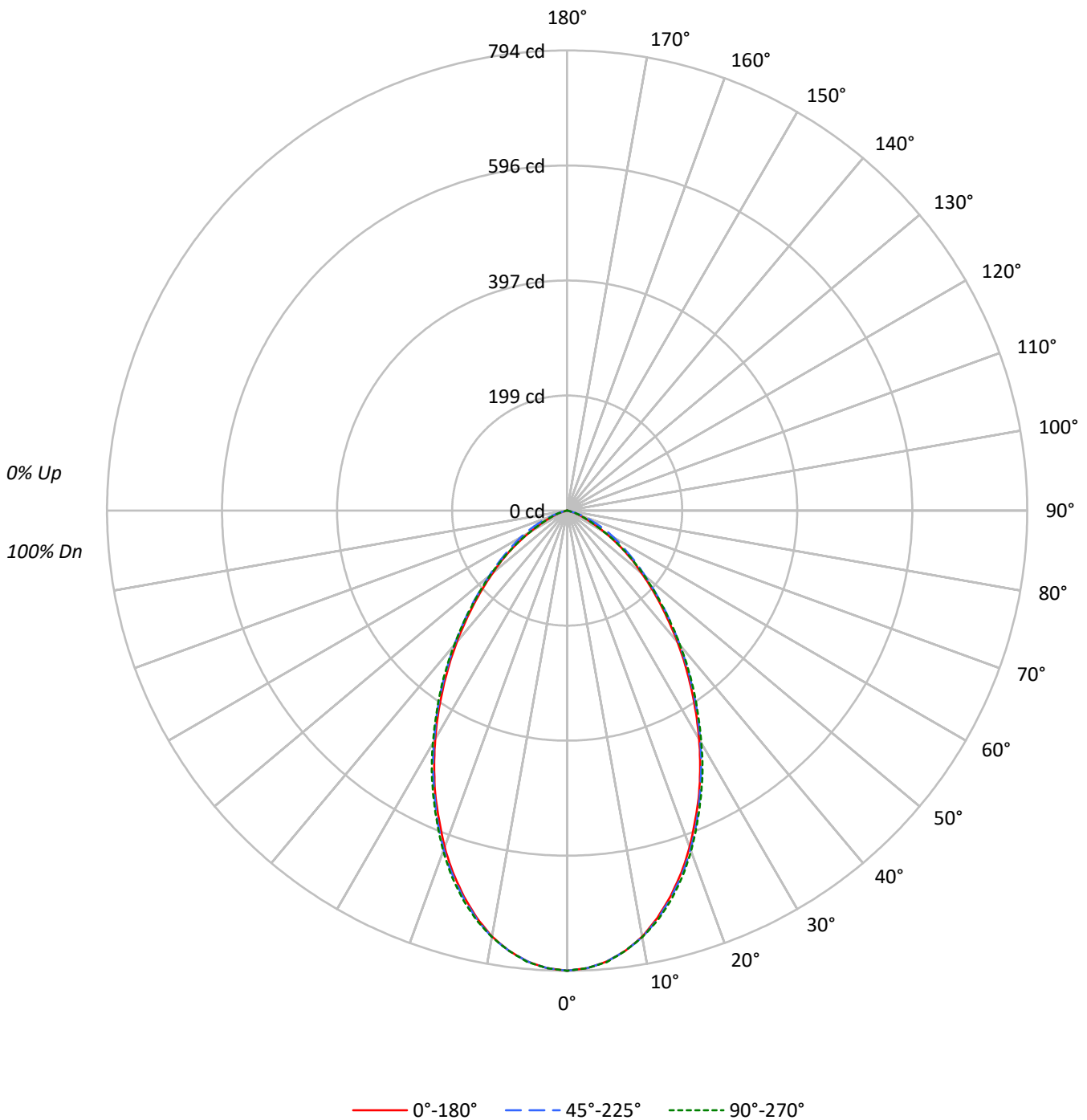
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	73	68	78	72	68	75	71	67	73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34190	34190	34190
5°	33764	33764	33807
10°	32633	32676	32676
15°	30703	30832	30966
20°	28325	28509	28646
25°	25592	25734	25920
30°	22631	22830	23029
35°	19590	19905	20063
40°	16648	16980	17036
45°	13798	14285	14102
50°	11186	11782	11514
55°	8880	9698	9030
60°	6329	7957	6329
65°	4146	6072	4248
70°	2757	3751	2883
75°	1331	1647	1331
80°	0	248	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	6.6
10°-20°	193.5	17.5
20°-30°	248.3	22.5
30°-40°	236.0	21.3
40°-50°	180.2	16.3
50°-60°	112.6	10.2
60°-70°	50.3	4.5
70°-80°	11.1	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°	515.3	46.6
0°-40°	751.4	68.0
0°-60°	1044.2	94.4
0°-90°	1105.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1105.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	781	781	781	782	782	73
15°	689	690	692	694	695	193
25°	539	540	542	544	546	247
35°	373	377	379	380	382	233
45°	227	232	235	236	232	175
55°	118	125	129	127	120	106
65°	41	47	60	48	42	43
75°	8	10	10	10	8	9
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°	794.1	794.1	794.1	794.1	794.1
2.5°	790.1	790.1	790.1	790.1	790.1
5°	781.2	781.2	781.2	782.2	782.2
7.5°	766.3	766.3	766.3	767.3	766.3
10°	746.4	746.4	747.4	747.4	747.4
12.5°	719.6	720.6	721.6	722.6	723.5
15°	688.8	689.8	691.7	693.7	694.7
17.5°	655.0	655.0	658.9	661.9	661.9
20°	618.2	619.2	622.2	623.2	625.2
22.5°	577.4	580.4	583.4	584.4	585.4
25°	538.7	539.7	541.7	543.7	545.6
27.5°	496.9	497.9	500.9	501.9	505.9
30°	455.2	457.2	459.2	461.2	463.2
32.5°	413.5	415.4	418.4	419.4	421.4
35°	372.7	376.7	378.7	379.7	381.7
37.5°	333.9	337.9	338.9	341.9	341.9
40°	296.2	300.2	302.1	304.1	303.1
42.5°	259.4	264.4	266.4	269.3	266.4
45°	226.6	231.6	234.6	235.6	231.6
47.5°	195.8	201.8	202.8	203.7	201.8
50°	167.0	172.9	175.9	176.9	171.9
52.5°	143.1	148.1	151.1	150.1	146.1
55°	118.3	125.2	129.2	127.2	120.3
57.5°	95.4	103.4	109.3	104.4	97.4
60°	73.5	82.5	92.4	84.5	73.5
62.5°	54.7	63.6	76.5	63.6	54.7
65°	40.7	46.7	59.6	47.7	41.7
67.5°	29.8	34.8	44.7	34.8	30.8
70°	21.9	25.8	29.8	25.8	22.9
72.5°	14.9	17.9	17.9	17.9	14.9
75°	8.0	9.9	9.9	9.9	8.0
77.5°	1.0	3.0	4.0	3.0	1.0
80°	0.0	0.0	1.0	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)