

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: P238018

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-64SMDMW-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM 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: 1123.6 lumens
Efficiency: N/A
Efficacy: 112.4 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

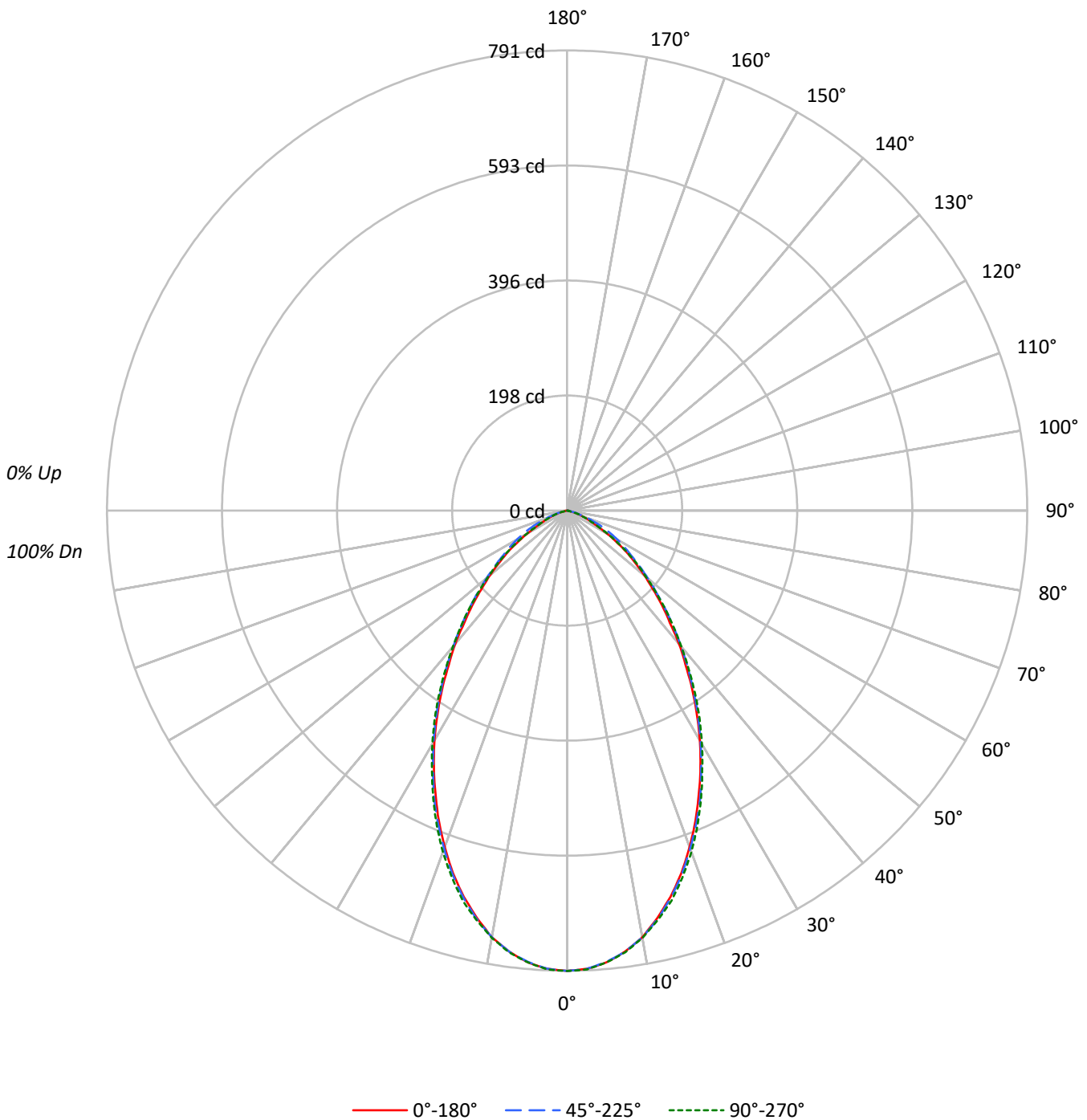
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90					90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71					71			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	60	71	65	60	69	64	59	67	62	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47					47			
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34074	34074	34074
5°	33690	33647	33690
10°	32558	32558	32602
15°	30623	30712	30935
20°	28197	28334	28609
25°	25459	25744	25882
30°	22691	22835	23034
35°	19700	19910	20120
40°	16822	17098	17154
45°	14047	14467	14467
50°	11588	12117	11856
55°	9331	10074	9556
60°	6846	8559	7018
65°	4656	6785	4758
70°	3374	4381	3374
75°	1980	2312	1813
80°	496	744	496
85°	494	494	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	6.5
10°-20°	192.9	17.2
20°-30°	247.7	22.0
30°-40°	236.6	21.1
40°-50°	183.3	16.3
50°-60°	117.9	10.5
60°-70°	55.9	5.0
70°-80°	14.9	1.3
80°-90°	1.1	0.1
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°	513.8	45.7
0°-40°	750.5	66.8
0°-60°	1051.6	93.6
0°-90°	1123.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1123.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	791	791	791	791	791	
5°	780	780	778	780	780	73
15°	687	688	689	692	694	192
25°	536	537	542	543	545	246
35°	375	376	379	381	383	234
45°	231	236	238	240	238	178
55°	124	131	134	133	127	111
65°	46	53	67	53	47	48
75°	12	14	14	14	11	13
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	791.4	791.4	791.4	791.4	791.4
2.5°	788.4	788.4	788.4	788.4	789.4
5°	779.5	779.5	778.5	779.5	779.5
7.5°	764.6	764.6	764.6	765.6	765.6
10°	744.7	744.7	744.7	745.7	745.7
12.5°	716.8	717.8	718.8	720.8	720.8
15°	687.0	688.0	689.0	692.0	694.0
17.5°	653.2	654.2	655.2	659.2	660.2
20°	615.4	615.4	618.4	623.4	624.4
22.5°	576.7	577.6	580.6	582.6	585.6
25°	535.9	536.9	541.9	542.8	544.8
27.5°	496.1	496.1	499.1	501.1	503.1
30°	456.4	456.4	459.3	460.3	463.3
32.5°	414.6	415.6	418.6	420.6	423.5
35°	374.8	375.8	378.8	380.8	382.8
37.5°	334.1	339.0	341.0	343.0	343.0
40°	299.3	302.2	304.2	307.2	305.2
42.5°	261.5	268.4	269.4	272.4	270.4
45°	230.7	235.6	237.6	239.6	237.6
47.5°	199.8	205.8	207.8	208.8	205.8
50°	173.0	178.0	180.9	180.9	177.0
52.5°	147.1	153.1	156.1	156.1	152.1
55°	124.3	131.2	134.2	133.2	127.3
57.5°	100.4	109.4	116.3	111.4	103.4
60°	79.5	89.5	99.4	90.5	81.5
62.5°	59.7	69.6	82.5	70.6	60.6
65°	45.7	52.7	66.6	52.7	46.7
67.5°	35.8	39.8	49.7	39.8	35.8
70°	26.8	29.8	34.8	29.8	26.8
72.5°	18.9	21.9	22.9	21.9	18.9
75°	11.9	13.9	13.9	13.9	10.9
77.5°	4.0	6.0	8.0	6.0	4.0
80°	2.0	2.0	3.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0
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)