

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: P238013

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238013
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
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1130.1 lumens
Efficiency: N/A
Efficacy: 113.0 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

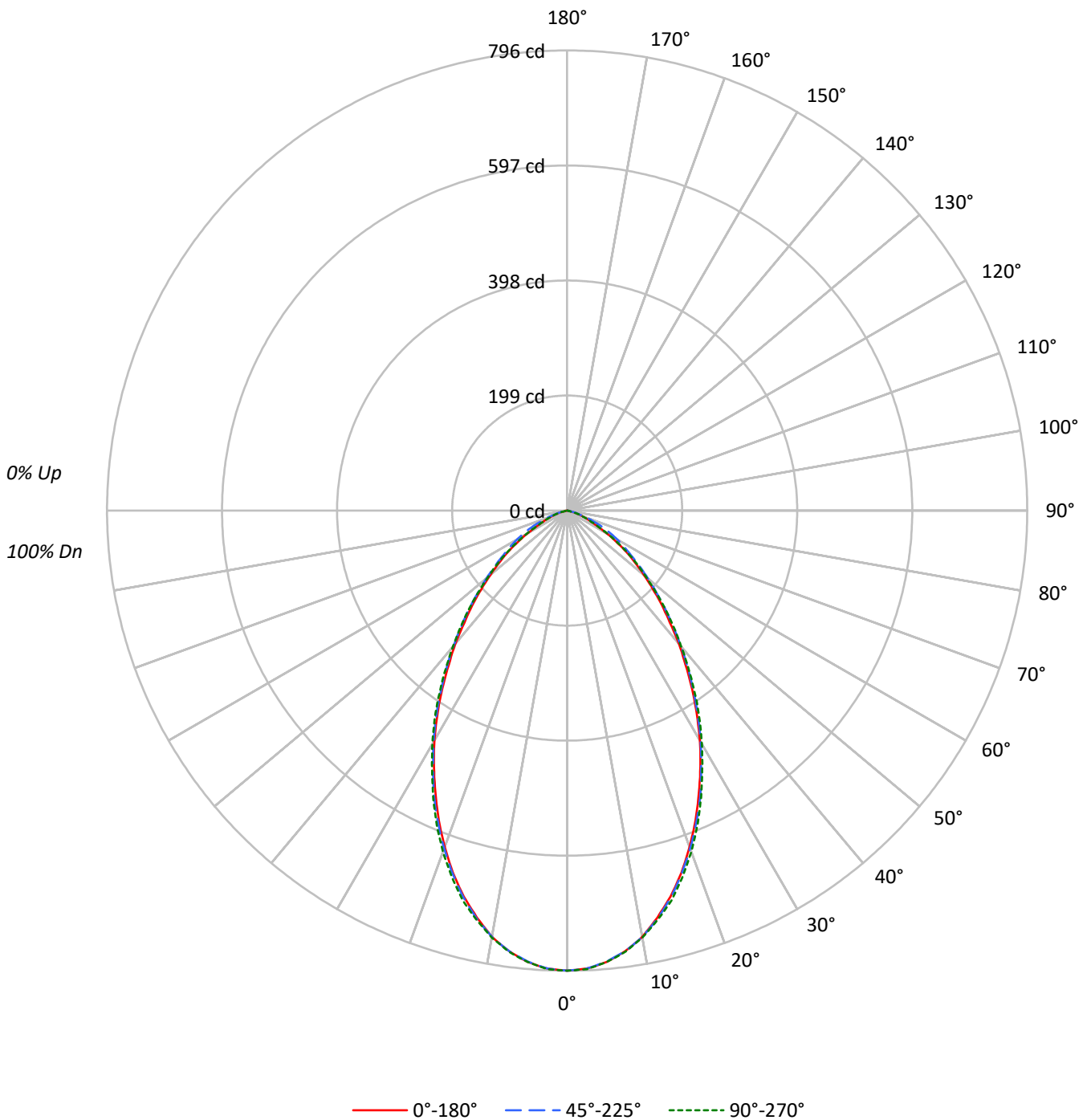
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	34268	34268	34268
5°	33880	33837	33880
10°	32742	32742	32786
15°	30797	30886	31109
20°	28362	28499	28770
25°	25606	25891	26034
30°	22820	22969	23168
35°	19816	20026	20236
40°	16918	17199	17255
45°	14126	14553	14553
50°	11655	12191	11923
55°	9383	10134	9608
60°	6889	8611	7061
65°	4686	6826	4788
70°	3399	4406	3399
75°	1996	2329	1830
80°	496	744	496
85°	494	494	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	6.5
10°-20°	194.0	17.2
20°-30°	249.1	22.0
30°-40°	238.0	21.1
40°-50°	184.3	16.3
50°-60°	118.6	10.5
60°-70°	56.2	5.0
70°-80°	15.0	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°	516.8	45.7
0°-40°	754.8	66.8
0°-60°	1057.7	93.6
0°-90°	1130.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1130.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	784	784	783	784	784	74
15°	691	692	693	696	698	193
25°	539	540	545	546	548	247
35°	377	378	381	383	385	235
45°	232	237	239	241	239	179
55°	125	132	135	134	128	112
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°	795.9	795.9	795.9	795.9	795.9
2.5°	792.9	792.9	792.9	792.9	793.9
5°	783.9	783.9	782.9	783.9	783.9
7.5°	768.9	768.9	768.9	769.9	769.9
10°	748.9	748.9	748.9	749.9	749.9
12.5°	720.9	721.9	722.9	724.9	724.9
15°	690.9	691.9	692.9	695.9	697.9
17.5°	656.9	657.9	658.9	662.9	663.9
20°	619.0	619.0	622.0	626.9	627.9
22.5°	580.0	581.0	584.0	586.0	589.0
25°	539.0	540.0	545.0	546.0	548.0
27.5°	499.0	499.0	502.0	504.0	506.0
30°	459.0	459.0	462.0	463.0	466.0
32.5°	417.0	418.0	421.0	423.0	426.0
35°	377.0	378.0	381.0	383.0	385.0
37.5°	336.0	341.0	343.0	345.0	345.0
40°	301.0	304.0	306.0	309.0	307.0
42.5°	263.0	270.0	271.0	274.0	272.0
45°	232.0	237.0	239.0	241.0	239.0
47.5°	201.0	207.0	209.0	210.0	207.0
50°	174.0	179.0	182.0	182.0	178.0
52.5°	148.0	154.0	157.0	157.0	153.0
55°	125.0	132.0	135.0	134.0	128.0
57.5°	101.0	110.0	117.0	112.0	104.0
60°	80.0	90.0	100.0	91.0	82.0
62.5°	60.0	70.0	83.0	71.0	61.0
65°	46.0	53.0	67.0	53.0	47.0
67.5°	36.0	40.0	50.0	40.0	36.0
70°	27.0	30.0	35.0	30.0	27.0
72.5°	19.0	22.0	23.0	22.0	19.0
75°	12.0	14.0	14.0	14.0	11.0
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)