

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: P237968

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P237968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-64SMDMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1065.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.94 / 1
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

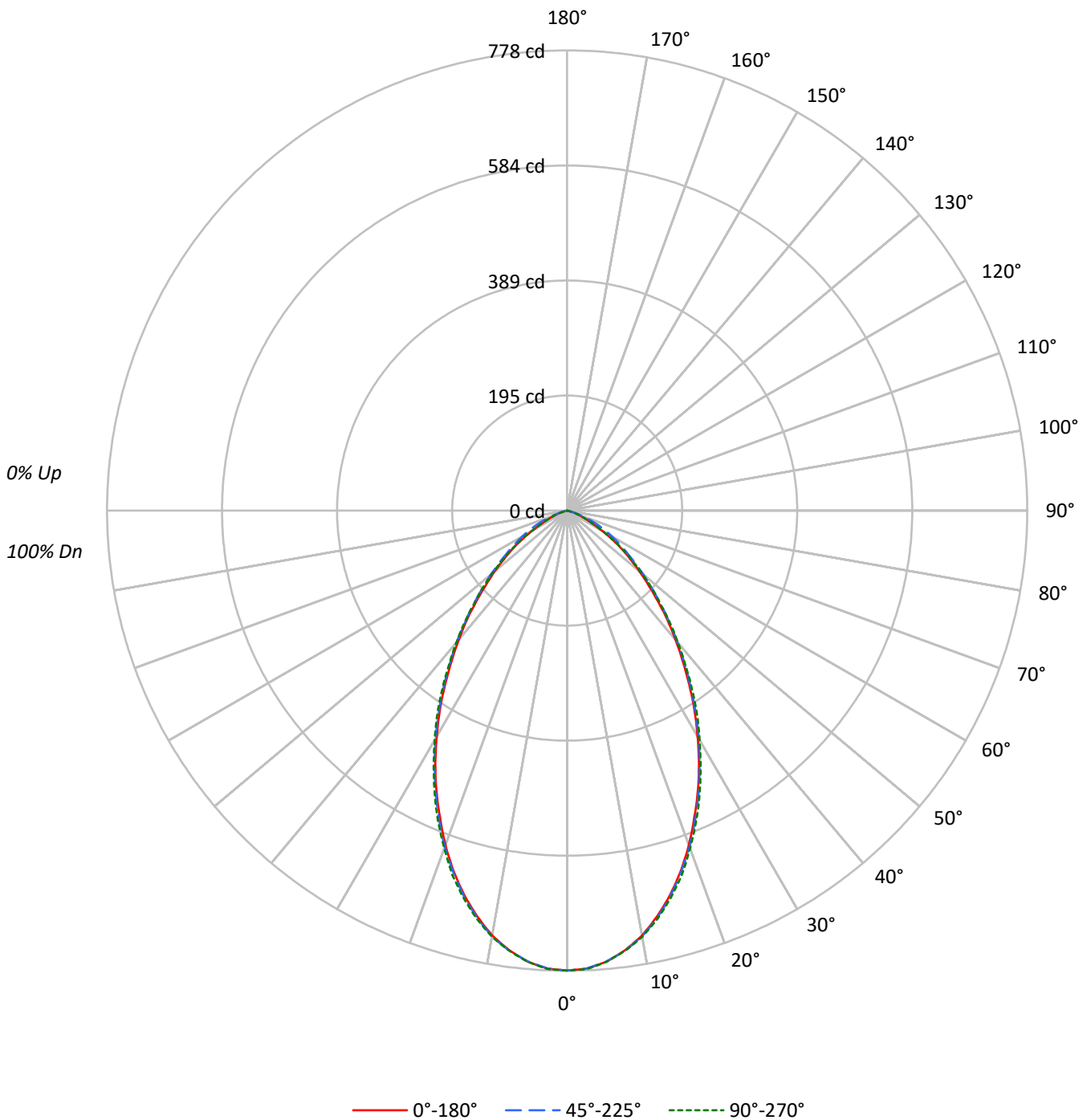
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	74	67	62	83	73	67	62	71	66	61	70	64	60	68	63	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	51	73	62	55	51	61	55	50	60	54	50	58	53	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33484	33484	33484
5°	33094	33050	33094
10°	31902	31946	31990
15°	29985	30074	30208
20°	27574	27711	27849
25°	24836	24979	25169
30°	21915	22114	22263
35°	18917	19127	19337
40°	16013	16294	16406
45°	13207	13633	13572
50°	10711	11246	10978
55°	8407	9158	8633
60°	5856	7578	6028
65°	3769	5807	3769
70°	2518	3399	2518
75°	998	1497	998
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	6.8
10°-20°	188.7	17.7
20°-30°	240.8	22.6
30°-40°	227.6	21.4
40°-50°	172.8	16.2
50°-60°	106.8	10.0
60°-70°	46.6	4.4
70°-80°	9.7	0.9
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°	501.5	47.1
0°-40°	729.1	68.5
0°-60°	1008.7	94.7
0°-90°	1065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1065.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	766	766	765	766	766	72
15°	673	673	675	677	678	188
25°	523	523	526	528	530	240
35°	360	363	364	367	368	225
45°	217	223	224	227	223	168
55°	112	119	122	121	115	100
65°	37	43	57	44	37	39
75°	6	9	9	9	6	8
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°	777.7	777.7	777.7	777.7	777.7
2.5°	774.7	774.7	774.7	774.7	775.7
5°	765.7	765.7	764.7	765.7	765.7
7.5°	749.7	750.7	750.7	750.7	750.7
10°	729.7	729.7	730.7	731.7	731.7
12.5°	702.7	703.7	704.7	706.7	706.7
15°	672.7	672.7	674.7	676.7	677.7
17.5°	638.7	638.7	640.7	642.7	645.7
20°	601.8	601.8	604.8	607.8	607.8
22.5°	561.8	561.8	565.8	566.8	569.8
25°	522.8	522.8	525.8	527.8	529.8
27.5°	482.8	481.8	484.8	486.8	488.8
30°	440.8	440.8	444.8	444.8	447.8
32.5°	400.8	400.8	403.8	405.8	408.8
35°	359.9	362.9	363.9	366.9	367.9
37.5°	320.9	325.9	325.9	329.9	327.9
40°	284.9	287.9	289.9	291.9	291.9
42.5°	250.9	254.9	254.9	257.9	256.9
45°	216.9	222.9	223.9	226.9	222.9
47.5°	185.9	192.9	193.9	195.9	193.9
50°	159.9	164.9	167.9	167.9	163.9
52.5°	133.9	139.9	142.9	142.9	137.9
55°	112.0	119.0	122.0	121.0	115.0
57.5°	89.0	97.0	104.0	100.0	92.0
60°	68.0	78.0	88.0	80.0	70.0
62.5°	49.0	59.0	72.0	59.0	51.0
65°	37.0	43.0	57.0	44.0	37.0
67.5°	27.0	31.0	42.0	32.0	27.0
70°	20.0	23.0	27.0	23.0	20.0
72.5°	13.0	16.0	16.0	16.0	13.0
75°	6.0	9.0	9.0	9.0	6.0
77.5°	0.0	2.0	4.0	2.0	0.0
80°	0.0	0.0	0.0	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)