

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: P238098

Luminaire Tested: **PRS610D010-S6M12-64SMDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-11)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-64SMDC-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1070.3 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

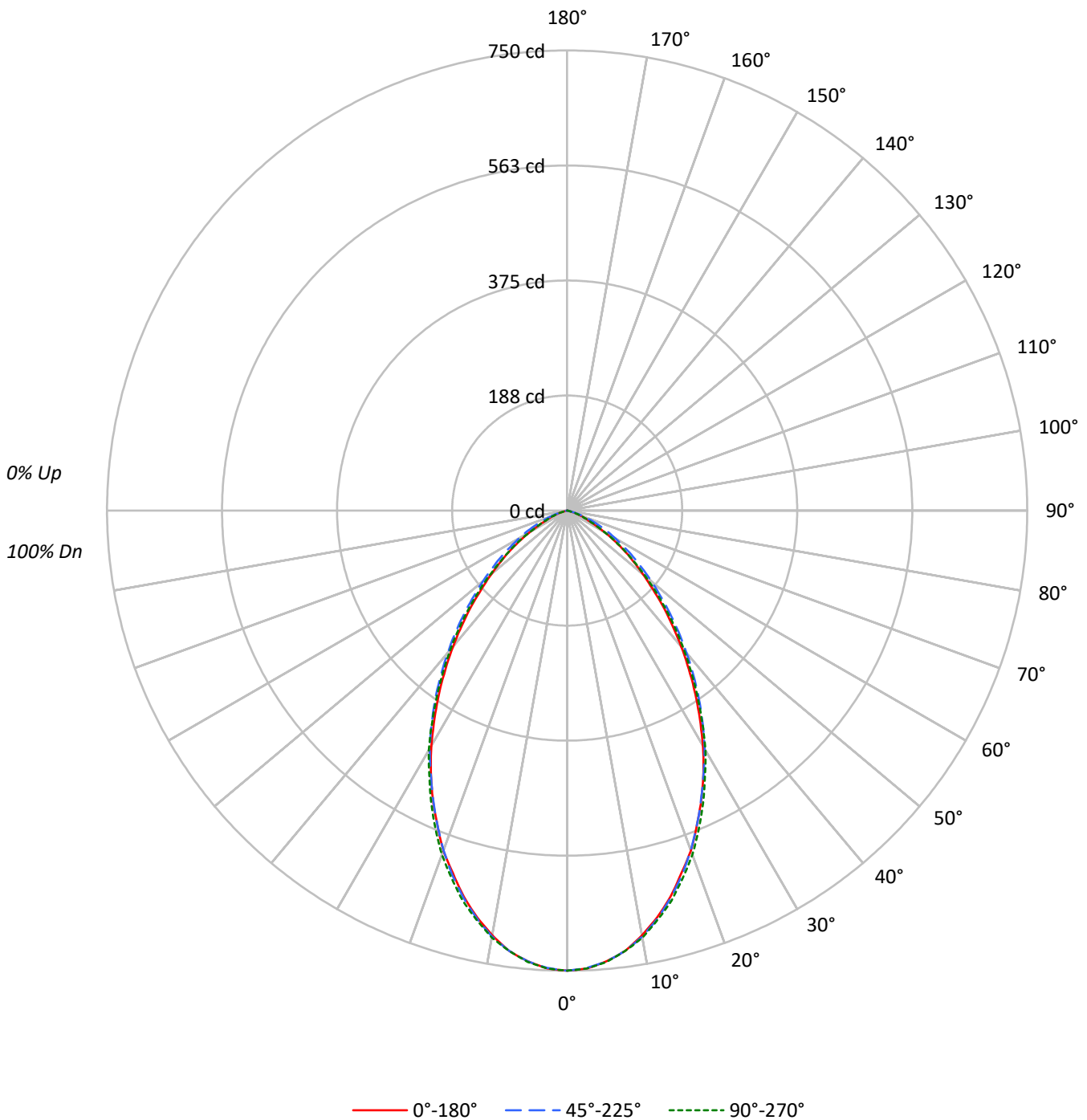
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	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	87	82	77	85	80	76		82	78	74		80	76	73	71
4	91	81	74	69	89	80	73	68	77	72	67		75	70	66		73	69	66	64
5	84	74	67	61	83	73	66	61	71	65	60		69	64	60		67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54		64	58	54		62	57	54	52
7	74	63	55	50	72	62	55	50	60	54	50		59	53	49		58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45		55	49	45		54	49	45	43
9	66	54	47	42	64	53	46	42	52	46	42		51	46	41		50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32287	32287	32287
5°	31871	31871	31914
10°	30735	30818	30901
15°	29031	29116	29330
20°	27033	26987	27340
25°	24613	24570	24931
30°	22000	22283	22427
35°	19127	19684	19479
40°	16255	17008	16631
45°	13469	14407	13822
50°	10778	11997	11099
55°	8482	9849	8625
60°	6019	7750	6105
65°	3902	5858	4004
70°	2656	3613	2656
75°	1281	1597	1281
80°	0	248	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	6.5
10°-20°	183.0	17.1
20°-30°	238.3	22.3
30°-40°	231.1	21.6
40°-50°	178.6	16.7
50°-60°	110.5	10.3
60°-70°	48.7	4.6
70°-80°	10.7	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°	490.7	45.8
0°-40°	721.8	67.4
0°-60°	1010.9	94.4
0°-90°	1070.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1070.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	737	738	737	738	738	69
15°	651	652	653	657	658	182
25°	518	517	517	522	525	237
35°	364	368	374	372	371	227
45°	221	230	237	234	227	171
55°	113	122	131	124	115	101
65°	38	46	58	46	39	40
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°	749.9	749.9	749.9	749.9	749.9
2.5°	747.0	747.0	746.1	747.0	747.0
5°	737.4	738.4	737.4	738.4	738.4
7.5°	724.0	724.0	724.0	725.0	724.0
10°	703.0	703.9	704.9	705.8	706.8
12.5°	679.0	680.0	680.9	682.9	682.9
15°	651.3	652.2	653.2	657.0	658.0
17.5°	619.6	620.6	622.5	626.4	627.3
20°	590.0	587.1	589.0	591.9	596.7
22.5°	553.6	553.6	553.6	557.4	561.2
25°	518.1	517.2	517.2	522.0	524.8
27.5°	480.8	480.8	481.7	484.6	486.5
30°	442.5	442.5	448.2	447.3	451.1
32.5°	402.2	405.1	410.9	408.9	409.9
35°	363.9	367.8	374.5	371.6	370.6
37.5°	325.6	330.4	338.1	335.2	332.3
40°	289.2	295.9	302.6	298.8	295.9
42.5°	253.8	261.5	269.1	265.3	261.5
45°	221.2	229.9	236.6	233.7	227.0
47.5°	188.7	199.2	205.9	203.0	196.3
50°	160.9	171.4	179.1	174.3	165.7
52.5°	136.0	145.6	153.2	147.5	138.9
55°	113.0	121.6	131.2	123.5	114.9
57.5°	91.0	100.6	109.2	102.5	92.9
60°	69.9	80.4	90.0	82.4	70.9
62.5°	51.7	62.3	73.7	63.2	52.7
65°	38.3	46.0	57.5	46.0	39.3
67.5°	28.7	33.5	43.1	34.5	28.7
70°	21.1	24.9	28.7	24.9	21.1
72.5°	14.4	17.2	17.2	17.2	14.4
75°	7.7	9.6	9.6	9.6	7.7
77.5°	1.0	2.9	3.8	2.9	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)