

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: P238283

Luminaire Tested: **PRS610D010-S6M12-61SMDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-23)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-61SMDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1067.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.87 / 0.9
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

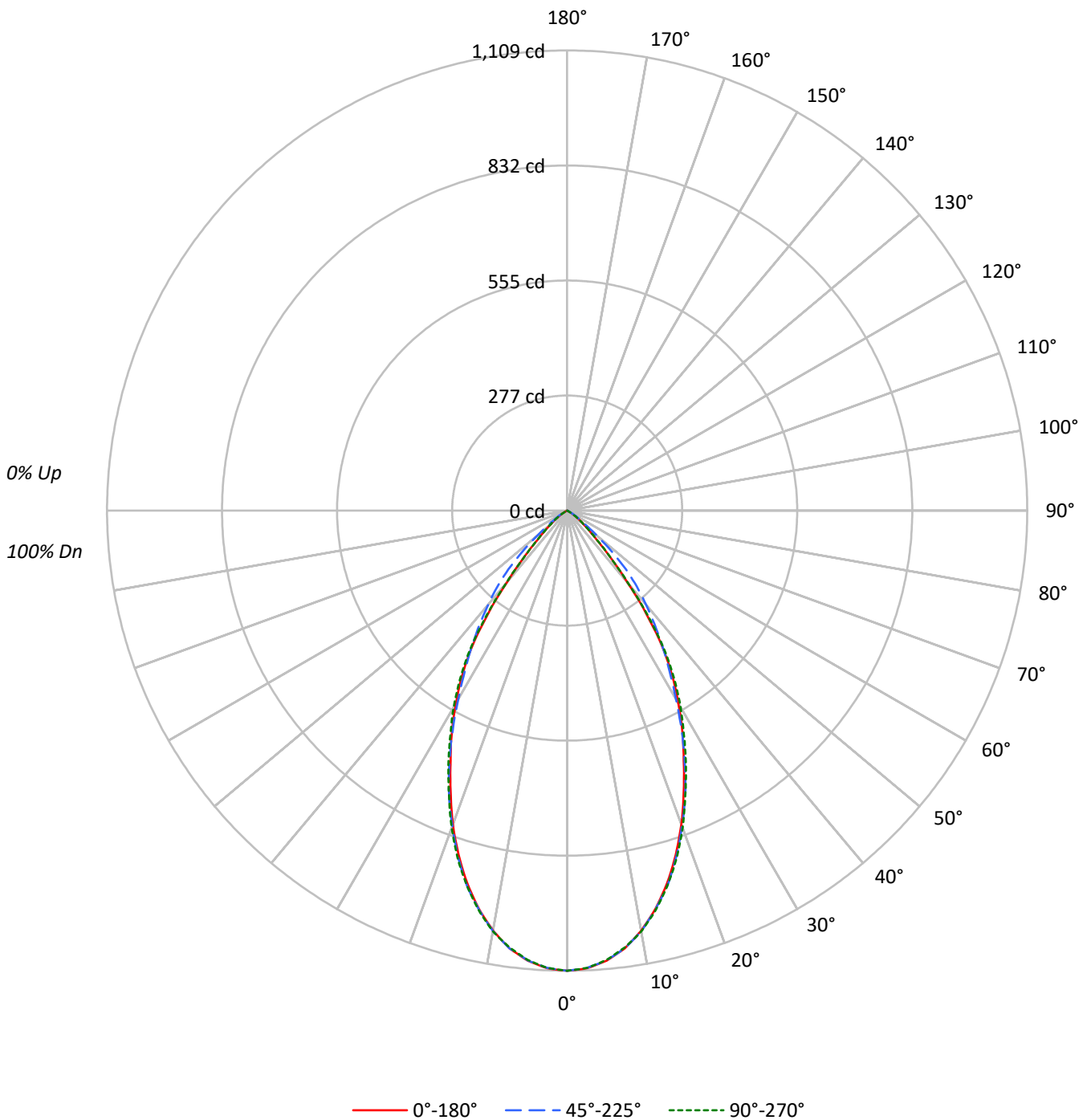
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	100		
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86	86	86	86	86	86	86		
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67	67	67	67		
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62	62	62	62	62	62	62		
7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58	58	58	58	58	58	58		
8	77	67	60	56	76	66	60	56	65	60	56	64	59	55	63	59	55	54	54	54	54	54	54	54		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47753	47753	47753
5°	47071	47028	46985
10°	44948	44992	45036
15°	41459	41682	41682
20°	36889	37072	37301
25°	31592	31877	32162
30°	26648	26051	27195
35°	20972	21077	21445
40°	12759	16581	12983
45°	6454	12178	6576
50°	3550	6162	3550
55°	1952	2552	2027
60°	517	1119	517
65°	0	408	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	9.6
10°-20°	260.0	24.4
20°-30°	307.0	28.8
30°-40°	250.6	23.5
40°-50°	115.0	10.8
50°-60°	29.9	2.8
60°-70°	2.5	0.2
70°-80°	0.0	0.0
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°	669.0	62.7
0°-40°	919.5	86.2
0°-60°	1064.5	99.8
0°-90°	1067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1109	1109	1109	1109	1109	
5°	1089	1089	1088	1088	1087	102
15°	930	932	935	936	935	259
25°	665	664	671	675	677	306
35°	399	410	401	416	408	242
45°	106	131	200	132	108	91
55°	26	32	34	32	27	24
65°	0	0	4	0	0	1
75°	0	0	0	0	0	0
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°	1109.1	1109.1	1109.1	1109.1	1109.1
2.5°	1104.1	1104.1	1103.1	1103.1	1103.1
5°	1089.1	1089.1	1088.1	1088.1	1087.1
7.5°	1064.1	1064.1	1064.1	1063.1	1062.1
10°	1028.1	1028.1	1029.1	1029.1	1030.1
12.5°	983.1	984.1	984.1	986.1	986.1
15°	930.1	932.1	935.1	936.1	935.1
17.5°	870.1	872.1	875.1	879.1	878.1
20°	805.1	806.1	809.1	815.1	814.1
22.5°	734.1	736.1	744.1	746.1	744.1
25°	665.0	664.0	671.0	675.0	677.0
27.5°	602.0	597.0	598.0	604.0	610.0
30°	536.0	534.0	524.0	540.0	547.0
32.5°	471.0	472.0	459.0	476.0	480.0
35°	399.0	410.0	401.0	416.0	408.0
37.5°	313.0	343.0	346.0	348.0	321.0
40°	227.0	266.0	295.0	268.0	231.0
42.5°	158.0	190.0	249.0	194.0	157.0
45°	106.0	131.0	200.0	132.0	108.0
47.5°	74.0	88.0	145.0	89.0	74.0
50°	53.0	61.0	92.0	62.0	53.0
52.5°	39.0	44.0	56.0	44.0	39.0
55°	26.0	32.0	34.0	32.0	27.0
57.5°	16.0	21.0	22.0	21.0	15.0
60°	6.0	11.0	13.0	11.0	6.0
62.5°	1.0	3.0	8.0	4.0	1.0
65°	0.0	0.0	4.0	0.0	0.0
67.5°	0.0	0.0	1.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	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)