

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: P238178

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-61SNDMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP 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: 1103.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.87
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

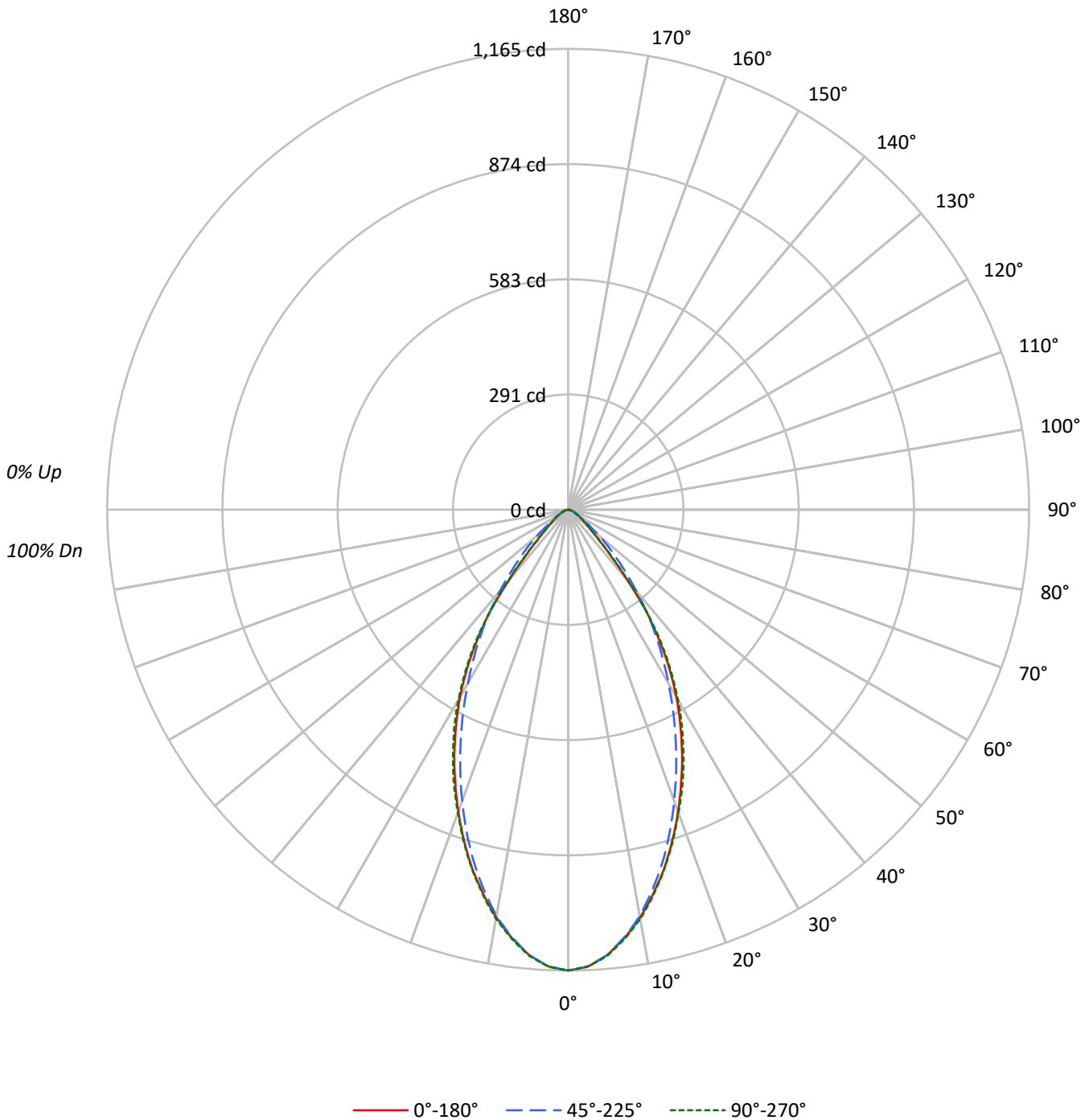
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100		100	98	97		96	95	94	92
2	106	101	96	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81		87	83	80		84	81	79	77
4	95	86	80	75	93	85	79	75	83	78	74		81	77	73		79	75	72	71
5	89	80	74	69	88	79	73	69	77	72	68		76	71	67		74	70	67	65
6	84	75	68	63	83	74	68	63	72	67	63		71	66	62		69	65	62	60
7	80	70	63	59	78	69	63	58	68	62	58		66	61	58		65	61	57	56
8	76	65	59	54	74	65	58	54	64	58	54		62	57	54		61	57	53	52
9	72	61	55	51	71	61	55	51	60	54	50		59	54	50		58	53	50	49
10	68	58	51	47	67	57	51	47	56	51	47		56	51	47		55	50	47	45

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	50160	50160	50160
5°	48839	48839	48925
10°	45775	45600	45906
15°	41811	41098	41900
20°	37205	35876	37342
25°	32352	30547	32732
30°	27195	25206	27593
35°	21025	20184	21498
40°	13152	15063	13433
45°	6941	10473	7063
50°	4354	6832	4421
55°	3228	3978	3303
60°	2411	2756	2411
65°	1834	2139	1834
70°	1637	1762	1637
75°	1497	1497	1497
80°	1240	1240	1240
85°	988	988	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	9.5
10°-20°	259.1	23.5
20°-30°	303.4	27.5
30°-40°	242.4	22.0
40°-50°	115.2	10.4
50°-60°	45.3	4.1
60°-70°	20.2	1.8
70°-80°	9.6	0.9
80°-90°	2.6	0.2
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°	667.7	60.5
0°-40°	910.1	82.5
0°-60°	1070.6	97.1
0°-90°	1103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1103.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1130	1130	1130	1131	1132	105
15°	938	928	922	930	940	261
25°	681	661	643	665	689	311
35°	400	385	384	390	409	246
45°	114	137	172	139	116	97
55°	43	48	53	49	44	40
65°	18	19	21	19	18	19
75°	9	9	9	9	9	9
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1165	1165	1165	1165	1165
2.5°	1156	1156	1155	1156	1156
5°	1130	1130	1130	1131	1132
7.5°	1092	1092	1090	1093	1094
10°	1047	1044	1043	1045	1050
12.5°	994	989	984	990	997
15°	938	928	922	930	940
17.5°	876	863	854	866	879
20°	812	798	783	800	815
22.5°	746	728	713	733	754
25°	681	661	643	665	689
27.5°	614	592	574	598	624
30°	547	524	507	532	555
32.5°	475	452	444	460	482
35°	400	385	384	390	409
37.5°	323	321	324	325	325
40°	234	255	268	260	239
42.5°	162	191	215	194	167
45°	114	137	172	139	116
47.5°	83	101	136	102	84
50°	65	76	102	75	66
52.5°	53	60	73	60	54
55°	43	48	53	49	44
57.5°	36	39	40	40	36
60°	28	31	32	31	28
62.5°	21	24	26	25	21
65°	18	19	21	19	18
67.5°	16	16	17	16	16
70°	13	14	14	14	13
72.5°	11	11	11	11	11
75°	9	9	9	9	9
77.5°	7	7	7	7	7
80°	5	5	5	6	5
82.5°	4	4	4	4	4
85°	2	2	2	2	2
87.5°	1	1	1	1	1
90°	0	0	0	0	0

(END OF REPORT)