

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: P253085

Luminaire Tested: **PRS620D010-S6M12-61SWDMW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-61SWDMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE 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: 2100.5 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

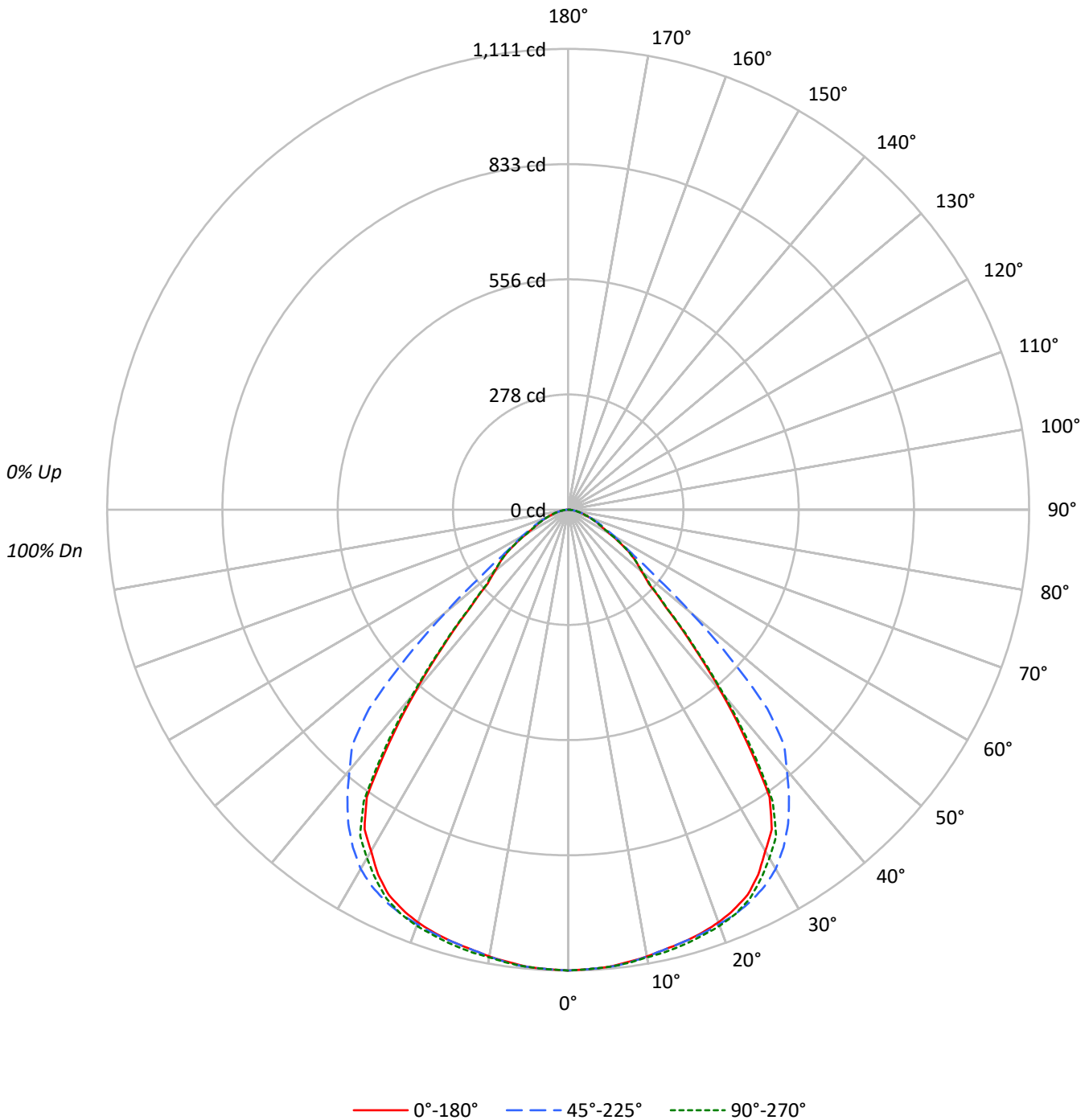
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51					51			
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42					42			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38					38			
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35					35			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47839	47839	47839
5°	47836	47836	47836
10°	47816	47816	47913
15°	48074	48074	48363
20°	48518	48719	48916
25°	48652	49478	49169
30°	47241	49726	48215
35°	44456	48572	45145
40°	32262	46071	32998
45°	20258	41308	20654
50°	15440	25922	15728
55°	13549	14525	13549
60°	9920	11048	9920
65°	8201	8863	8201
70°	6848	7113	6848
75°	5789	5789	5789
80°	4860	4860	4860
85°	4298	4298	4298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	5.0
10°-20°	305.7	14.6
20°-30°	475.6	22.6
30°-40°	543.5	25.9
40°-50°	363.6	17.3
50°-60°	174.0	8.3
60°-70°	84.8	4.0
70°-80°	38.2	1.8
80°-90°	9.7	0.5
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°	886.5	42.2
0°-40°	1430.0	68.1
0°-60°	1967.7	93.7
0°-90°	2100.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1107	1107	1107	1107	1107	105
15°	1078	1078	1078	1083	1085	305
25°	1024	1031	1042	1039	1035	469
35°	846	894	924	907	859	503
45°	333	428	678	435	339	276
55°	180	194	194	196	180	157
65°	80	83	87	83	80	81
75°	35	35	35	35	35	37
85°	9	9	9	9	9	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.1	1111.1	1111.1	1111.1	1111.1
2.5°	1108.9	1108.9	1108.9	1108.9	1108.9
5°	1106.8	1106.8	1106.8	1106.8	1106.8
7.5°	1100.2	1100.2	1102.4	1100.2	1102.4
10°	1093.7	1093.7	1093.7	1095.9	1095.9
12.5°	1085.0	1085.0	1085.0	1089.4	1091.5
15°	1078.5	1078.5	1078.5	1082.8	1085.0
17.5°	1069.8	1069.8	1072.0	1076.3	1076.3
20°	1058.9	1061.1	1063.3	1067.6	1067.6
22.5°	1043.7	1048.1	1054.6	1056.7	1054.6
25°	1024.1	1030.7	1041.5	1039.4	1035.0
27.5°	991.5	1006.7	1024.1	1015.4	1004.6
30°	950.2	974.1	1000.2	982.8	969.8
32.5°	913.2	932.8	965.4	945.9	932.8
35°	845.8	893.7	924.1	906.7	858.9
37.5°	708.8	815.4	874.1	828.4	726.2
40°	574.0	687.1	819.7	695.8	587.1
42.5°	445.7	554.5	769.7	563.2	454.4
45°	332.7	428.4	678.4	434.9	339.2
47.5°	263.1	317.5	528.4	324.0	267.4
50°	230.5	252.2	387.0	256.6	234.8
52.5°	206.6	219.6	269.6	221.8	206.6
55°	180.5	193.5	193.5	195.7	180.5
57.5°	145.7	165.3	152.2	165.3	147.9
60°	115.2	130.5	128.3	130.5	115.2
62.5°	93.5	102.2	104.4	102.2	93.5
65°	80.5	82.6	87.0	82.6	80.5
67.5°	67.4	69.6	69.6	69.6	65.2
70°	54.4	56.5	56.5	56.5	54.4
72.5°	43.5	45.7	45.7	45.7	43.5
75°	34.8	34.8	34.8	34.8	34.8
77.5°	26.1	28.3	26.1	28.3	26.1
80°	19.6	19.6	19.6	19.6	19.6
82.5°	13.0	13.0	13.0	13.0	13.0
85°	8.7	8.7	8.7	8.7	8.7
87.5°	4.3	4.3	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)