

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: P253060

Luminaire Tested: **PRS620D010-S6M12-61SWDC-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253060
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-S6M12-61SWDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2096.8 lumens
Efficiency: N/A
Efficacy: 104.8 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

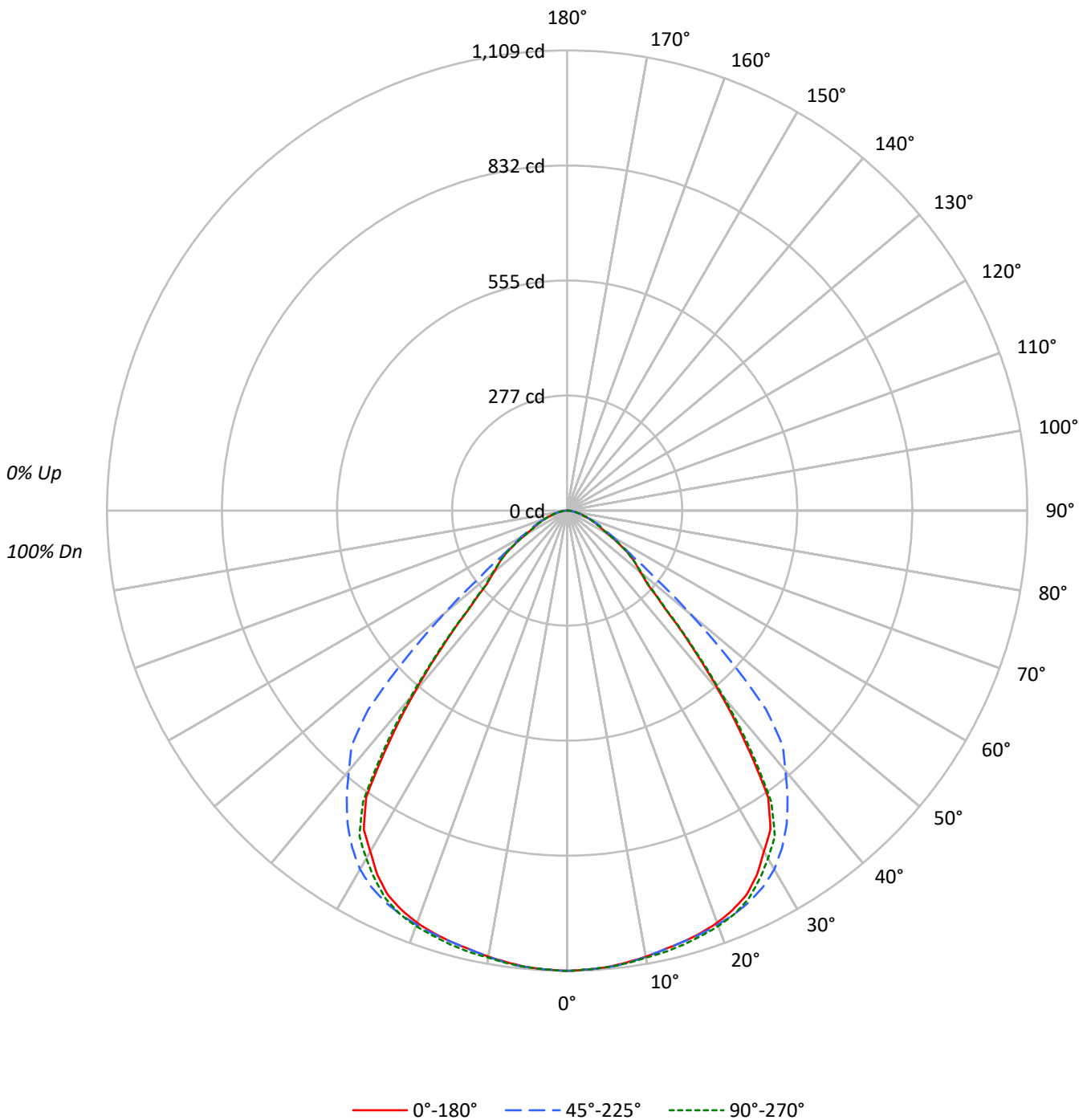
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	47757	47757	47757
5°	47750	47750	47750
10°	47733	47733	47830
15°	47989	47989	48279
20°	48435	48632	48834
25°	48571	49393	49084
30°	47161	49642	48130
35°	44383	48488	45066
40°	32206	45993	32942
45°	20222	41235	20617
50°	15413	25882	15701
55°	13527	14503	13527
60°	9903	11031	9903
65°	8181	8843	8181
70°	6836	7100	6836
75°	5772	5772	5772
80°	4835	4835	4835
85°	4298	4298	4298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	5.0
10°-20°	305.1	14.6
20°-30°	474.8	22.6
30°-40°	542.6	25.9
40°-50°	363.0	17.3
50°-60°	173.7	8.3
60°-70°	84.7	4.0
70°-80°	38.1	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°	885.0	42.2
0°-40°	1427.6	68.1
0°-60°	1964.3	93.7
0°-90°	2096.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2096.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1109	1109	1109	1109	1109	
5°	1105	1105	1105	1105	1105	105
15°	1077	1077	1077	1081	1083	304
25°	1022	1029	1040	1038	1033	468
35°	844	892	922	905	857	502
45°	332	428	677	434	339	275
55°	180	193	193	195	180	157
65°	80	82	87	82	80	80
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°	1109.2	1109.2	1109.2	1109.2	1109.2
2.5°	1107.0	1107.0	1107.0	1107.0	1107.0
5°	1104.8	1104.8	1104.8	1104.8	1104.8
7.5°	1098.3	1098.3	1100.5	1098.3	1100.5
10°	1091.8	1091.8	1091.8	1094.0	1094.0
12.5°	1083.1	1083.1	1083.1	1087.5	1089.6
15°	1076.6	1076.6	1076.6	1081.0	1083.1
17.5°	1067.9	1067.9	1070.1	1074.5	1074.5
20°	1057.1	1059.3	1061.4	1065.8	1065.8
22.5°	1041.9	1046.2	1052.7	1054.9	1052.7
25°	1022.4	1028.9	1039.7	1037.6	1033.2
27.5°	989.8	1005.0	1022.4	1013.7	1002.8
30°	948.6	972.4	998.5	981.1	968.1
32.5°	911.7	931.2	963.8	944.2	931.2
35°	844.4	892.1	922.5	905.1	857.4
37.5°	707.6	814.0	872.6	827.0	725.0
40°	573.0	685.9	818.3	694.6	586.1
42.5°	445.0	553.5	768.4	562.2	453.7
45°	332.1	427.6	677.2	434.1	338.6
47.5°	262.6	316.9	527.5	323.4	267.0
50°	230.1	251.8	386.4	256.1	234.4
52.5°	206.2	219.2	269.2	221.4	206.2
55°	180.2	193.2	193.2	195.4	180.2
57.5°	145.4	165.0	151.9	165.0	147.6
60°	115.0	130.2	128.1	130.2	115.0
62.5°	93.3	102.0	104.2	102.0	93.3
65°	80.3	82.5	86.8	82.5	80.3
67.5°	67.3	69.5	69.5	69.5	65.1
70°	54.3	56.4	56.4	56.4	54.3
72.5°	43.4	45.6	45.6	45.6	43.4
75°	34.7	34.7	34.7	34.7	34.7
77.5°	26.0	28.2	26.0	28.2	26.0
80°	19.5	19.5	19.5	19.5	19.5
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)