

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: P253055

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253055
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
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE 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: 2108.8 lumens
Efficiency: N/A
Efficacy: 105.4 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

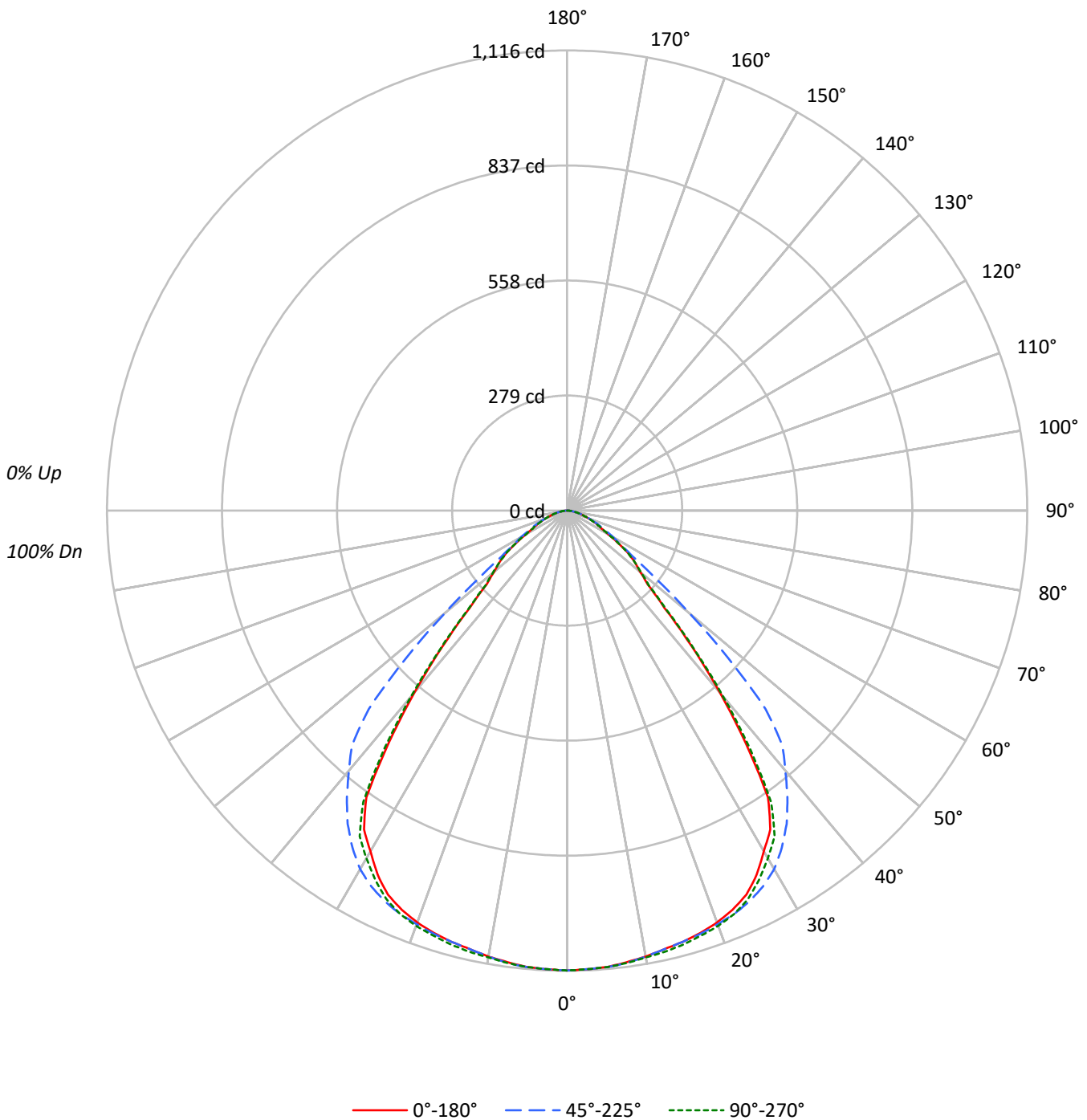
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	48029	48029	48029
5°	48026	48026	48026
10°	48009	48009	48105
15°	48265	48265	48555
20°	48710	48912	49113
25°	48846	49678	49364
30°	47429	49925	48404
35°	44635	48766	45324
40°	32391	46257	33127
45°	20337	41472	20739
50°	15500	26029	15795
55°	13602	14585	13602
60°	9963	11091	9963
65°	8232	8894	8232
70°	6873	7150	6873
75°	5806	5806	5806
80°	4860	4860	4860
85°	4298	4298	4298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	5.0
10°-20°	306.9	14.6
20°-30°	477.5	22.6
30°-40°	545.7	25.9
40°-50°	365.1	17.3
50°-60°	174.7	8.3
60°-70°	85.2	4.0
70°-80°	38.3	1.8
80°-90°	9.8	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°	890.0	42.2
0°-40°	1435.7	68.1
0°-60°	1975.5	93.7
0°-90°	2108.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2108.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1111	1111	1111	1111	1111	106
15°	1083	1083	1083	1087	1089	306
25°	1028	1035	1046	1044	1039	471
35°	849	897	928	910	862	505
45°	334	430	681	437	341	277
55°	181	194	194	196	181	158
65°	81	83	87	83	81	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°	1115.5	1115.5	1115.5	1115.5	1115.5
2.5°	1113.3	1113.3	1113.3	1113.3	1113.3
5°	1111.2	1111.2	1111.2	1111.2	1111.2
7.5°	1104.6	1104.6	1106.8	1104.6	1106.8
10°	1098.1	1098.1	1098.1	1100.3	1100.3
12.5°	1089.3	1089.3	1089.3	1093.7	1095.9
15°	1082.8	1082.8	1082.8	1087.2	1089.3
17.5°	1074.1	1074.1	1076.2	1080.6	1080.6
20°	1063.1	1065.3	1067.5	1071.9	1071.9
22.5°	1047.9	1052.2	1058.8	1061.0	1058.8
25°	1028.2	1034.8	1045.7	1043.5	1039.1
27.5°	995.5	1010.7	1028.2	1019.5	1008.6
30°	954.0	978.0	1004.2	986.7	973.6
32.5°	916.9	936.5	969.3	949.6	936.5
35°	849.2	897.2	927.8	910.3	862.3
37.5°	711.7	818.6	877.6	831.7	729.1
40°	576.3	689.8	823.0	698.6	589.4
42.5°	447.5	556.7	772.8	565.4	456.3
45°	334.0	430.1	681.1	436.6	340.6
47.5°	264.1	318.7	530.5	325.3	268.5
50°	231.4	253.2	388.6	257.6	235.8
52.5°	207.4	220.5	270.7	222.7	207.4
55°	181.2	194.3	194.3	196.5	181.2
57.5°	146.3	165.9	152.8	165.9	148.4
60°	115.7	131.0	128.8	131.0	115.7
62.5°	93.9	102.6	104.8	102.6	93.9
65°	80.8	83.0	87.3	83.0	80.8
67.5°	67.7	69.9	69.9	69.9	65.5
70°	54.6	56.8	56.8	56.8	54.6
72.5°	43.7	45.8	45.8	45.8	43.7
75°	34.9	34.9	34.9	34.9	34.9
77.5°	26.2	28.4	26.2	28.4	26.2
80°	19.6	19.6	19.6	19.6	19.6
82.5°	13.1	13.1	13.1	13.1	13.1
85°	8.7	8.7	8.7	8.7	8.7
87.5°	4.4	4.4	4.4	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)