

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: P253080

Luminaire Tested: **PRS620D010-S6M12-61SWDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253080
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-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2010.8 lumens
Efficiency: N/A
Efficacy: 100.5 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

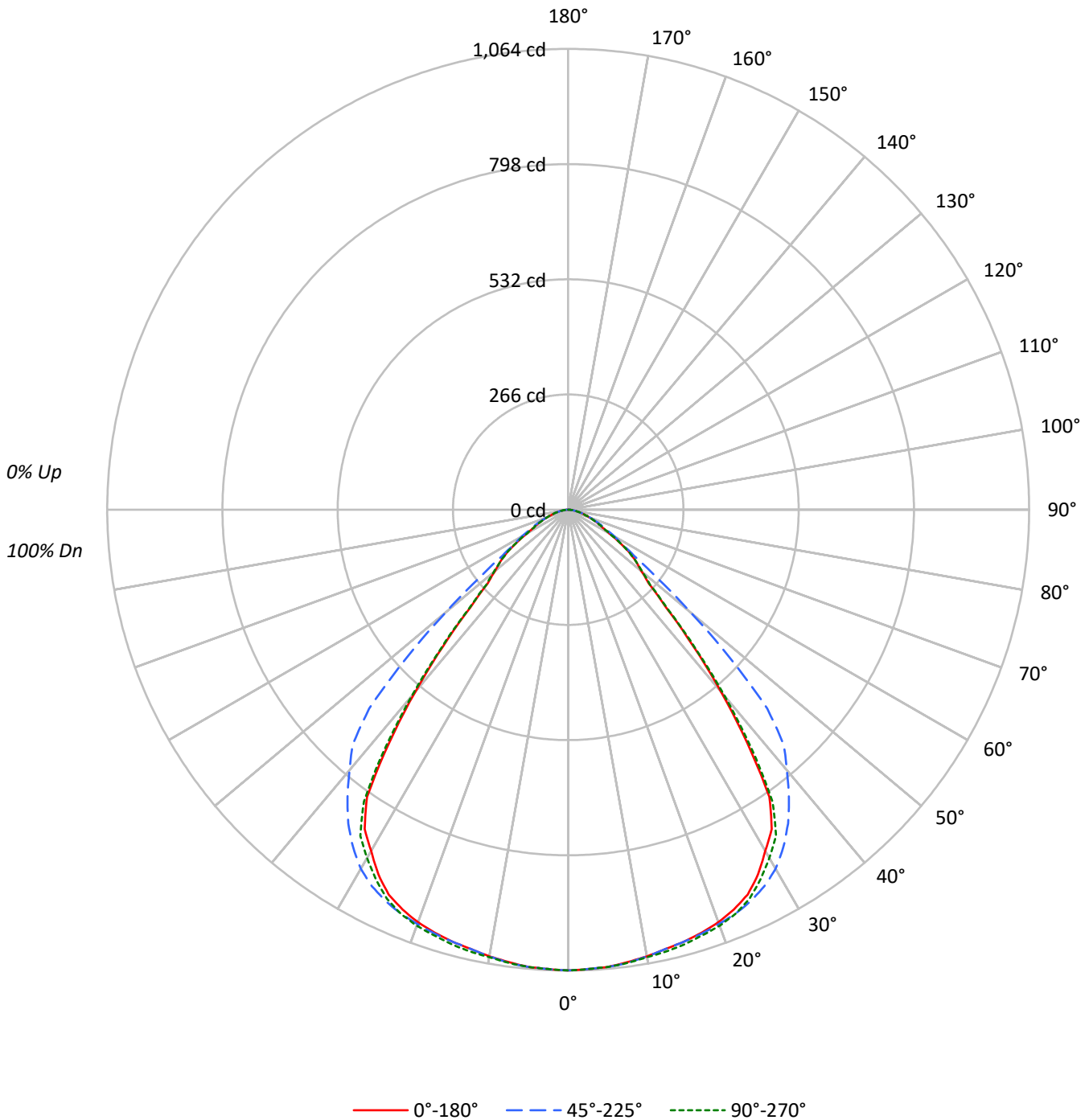
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	45798	45798	45798
5°	45792	45792	45792
10°	45775	45775	45867
15°	46023	46023	46300
20°	46447	46639	46831
25°	46576	47369	47070
30°	45227	47603	46157
35°	42559	46501	43216
40°	30885	44110	31587
45°	19393	39548	19771
50°	14776	24817	15058
55°	12971	13910	12971
60°	9498	10574	9498
65°	7845	8486	7845
70°	6546	6810	6546
75°	5540	5540	5540
80°	4637	4637	4637
85°	4100	4100	4100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	5.0
10°-20°	292.6	14.6
20°-30°	455.3	22.6
30°-40°	520.3	25.9
40°-50°	348.1	17.3
50°-60°	166.6	8.3
60°-70°	81.2	4.0
70°-80°	36.5	1.8
80°-90°	9.3	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°	848.7	42.2
0°-40°	1369.0	68.1
0°-60°	1883.7	93.7
0°-90°	2010.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2010.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1060	1060	1060	1060	1060	101
15°	1032	1032	1032	1037	1039	292
25°	980	987	997	995	991	449
35°	810	856	885	868	822	481
45°	318	410	650	416	325	264
55°	173	185	185	187	173	151
65°	77	79	83	79	77	77
75°	33	33	33	33	33	36
85°	8	8	8	8	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1063.7	1063.7	1063.7	1063.7	1063.7
2.5°	1061.6	1061.6	1061.6	1061.6	1061.6
5°	1059.5	1059.5	1059.5	1059.5	1059.5
7.5°	1053.3	1053.3	1055.4	1053.3	1055.4
10°	1047.0	1047.0	1047.0	1049.1	1049.1
12.5°	1038.7	1038.7	1038.7	1042.9	1045.0
15°	1032.5	1032.5	1032.5	1036.6	1038.7
17.5°	1024.1	1024.1	1026.2	1030.4	1030.4
20°	1013.7	1015.8	1017.9	1022.1	1022.1
22.5°	999.2	1003.3	1009.6	1011.7	1009.6
25°	980.4	986.7	997.1	995.0	990.8
27.5°	949.2	963.8	980.4	972.1	961.7
30°	909.7	932.6	957.5	940.9	928.4
32.5°	874.3	893.0	924.2	905.5	893.0
35°	809.7	855.5	884.7	868.0	822.2
37.5°	678.6	780.6	836.8	793.1	695.3
40°	549.5	657.8	784.8	666.1	562.0
42.5°	426.7	530.8	736.9	539.1	435.1
45°	318.5	410.1	649.5	416.3	324.7
47.5°	251.9	303.9	505.8	310.2	256.0
50°	220.6	241.5	370.5	245.6	224.8
52.5°	197.8	210.2	258.1	212.3	197.8
55°	172.8	185.3	185.3	187.3	172.8
57.5°	139.5	158.2	145.7	158.2	141.5
60°	110.3	124.9	122.8	124.9	110.3
62.5°	89.5	97.8	99.9	97.8	89.5
65°	77.0	79.1	83.3	79.1	77.0
67.5°	64.5	66.6	66.6	66.6	62.4
70°	52.0	54.1	54.1	54.1	52.0
72.5°	41.6	43.7	43.7	43.7	41.6
75°	33.3	33.3	33.3	33.3	33.3
77.5°	25.0	27.1	25.0	27.1	25.0
80°	18.7	18.7	18.7	18.7	18.7
82.5°	12.5	12.5	12.5	12.5	12.5
85°	8.3	8.3	8.3	8.3	8.3
87.5°	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)