

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: P253035

Luminaire Tested: **PRS620D010-S6M12-64SWDMB-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS620D010-S6M12-64SWDMB-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2002.8 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

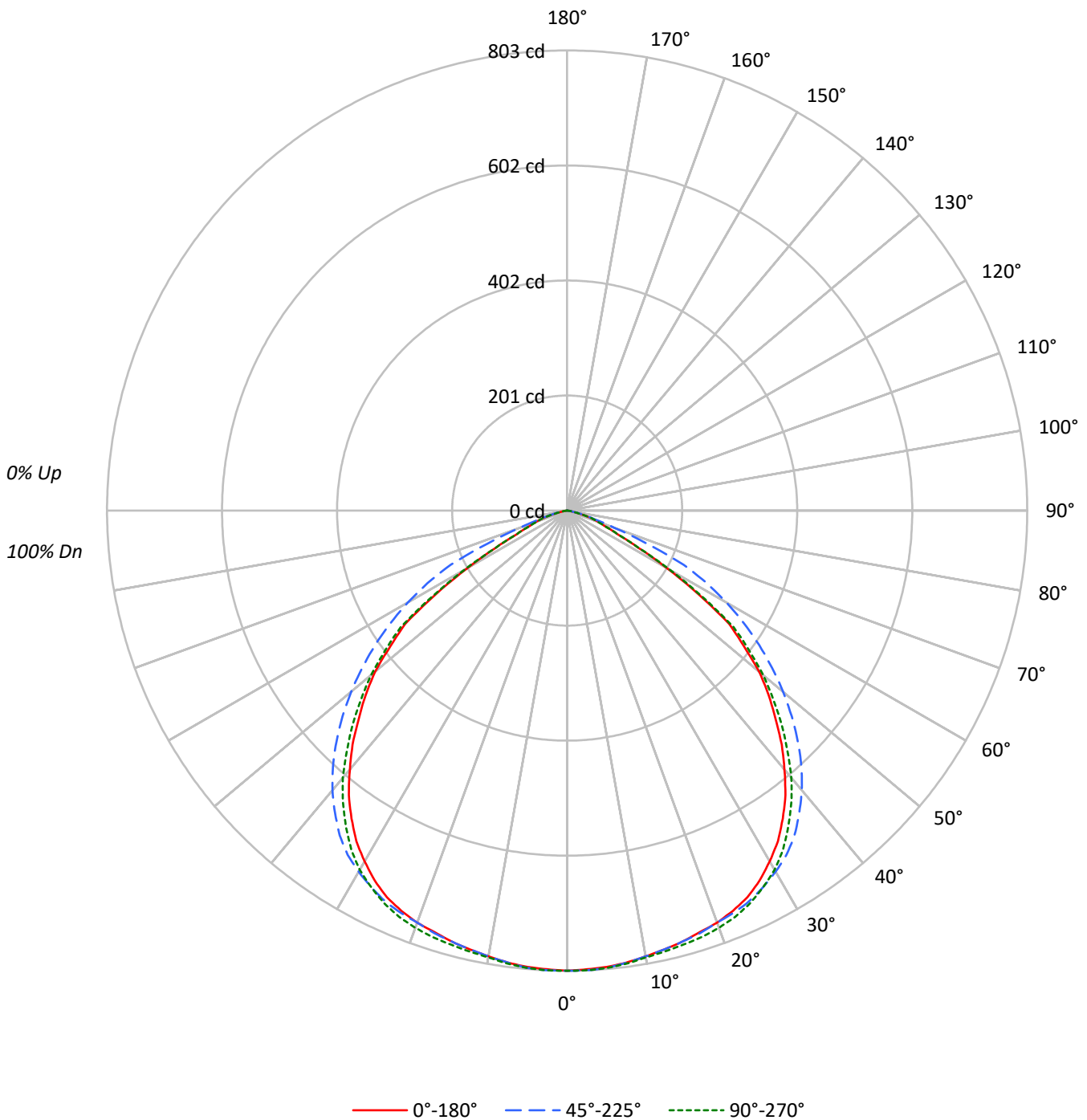
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	34574	34574	34574
5°	34546	34628	34628
10°	34530	34530	34613
15°	34701	34701	34955
20°	35065	35065	35500
25°	35373	35730	35910
30°	35145	36174	35990
35°	34480	36362	35374
40°	33161	35814	34223
45°	31334	34665	32253
50°	29292	32955	29928
55°	25898	30709	26603
60°	17369	27599	17859
65°	9791	22851	9791
70°	7352	11154	7125
75°	4392	5024	4708
80°	1860	2331	1860
85°	939	939	939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.1	3.8
10°-20°	220.7	11.0
20°-30°	345.7	17.3
30°-40°	422.4	21.1
40°-50°	419.9	21.0
50°-60°	331.5	16.6
60°-70°	148.4	7.4
70°-80°	34.6	1.7
80°-90°	3.6	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°	642.4	32.1
0°-40°	1064.8	53.2
0°-60°	1816.3	90.7
0°-90°	2002.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2002.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	799	799	801	801	801	76
15°	778	777	778	780	784	220
25°	745	746	752	754	756	342
35°	656	669	692	682	673	409
45°	515	539	569	552	530	397
55°	345	371	409	379	354	295
65°	96	126	224	128	96	108
75°	26	32	30	32	28	30
85°	2	2	2	2	2	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	803.0	803.0	803.0	803.0	803.0
2.5°	801.2	803.0	803.0	803.0	803.0
5°	799.3	799.3	801.2	801.2	801.2
7.5°	795.5	795.5	795.5	797.4	797.4
10°	789.8	789.8	789.8	791.7	791.7
12.5°	784.2	784.2	784.2	786.1	788.0
15°	778.5	776.6	778.5	780.4	784.2
17.5°	771.0	772.9	772.9	776.6	780.4
20°	765.3	765.3	765.3	771.0	774.8
22.5°	755.9	755.9	759.7	763.5	767.2
25°	744.6	746.5	752.1	754.0	755.9
27.5°	727.6	733.3	740.8	742.7	740.8
30°	706.9	714.4	727.6	725.8	723.9
32.5°	684.3	693.7	712.6	706.9	701.2
35°	656.0	669.2	691.8	682.4	673.0
37.5°	625.8	642.8	665.4	656.0	642.8
40°	590.0	610.8	637.2	624.0	608.9
42.5°	554.2	576.8	605.1	588.1	569.3
45°	514.6	539.1	569.3	552.3	529.7
47.5°	476.9	501.4	531.6	510.9	488.2
50°	437.3	460.0	492.0	469.4	446.8
52.5°	388.3	418.5	450.5	426.0	399.6
55°	345.0	371.4	409.1	378.9	354.4
57.5°	271.4	324.2	365.7	329.9	279.0
60°	201.7	252.6	320.5	260.1	207.4
62.5°	139.5	186.6	275.2	188.5	141.4
65°	96.1	126.3	224.3	128.2	96.1
67.5°	71.6	84.8	150.8	84.8	71.6
70°	58.4	62.2	88.6	62.2	56.6
72.5°	43.4	49.0	49.0	49.0	45.2
75°	26.4	32.0	30.2	32.0	28.3
77.5°	11.3	15.1	18.9	17.0	11.3
80°	7.5	7.5	9.4	7.5	7.5
82.5°	5.7	5.7	5.7	5.7	5.7
85°	1.9	1.9	1.9	1.9	1.9
87.5°	1.9	1.9	1.9	1.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)