

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: P253020

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253020  
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-S6M12-64SWDMW-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW 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: 2206.9 lumens  
Efficiency: N/A  
Efficacy: 110.3 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

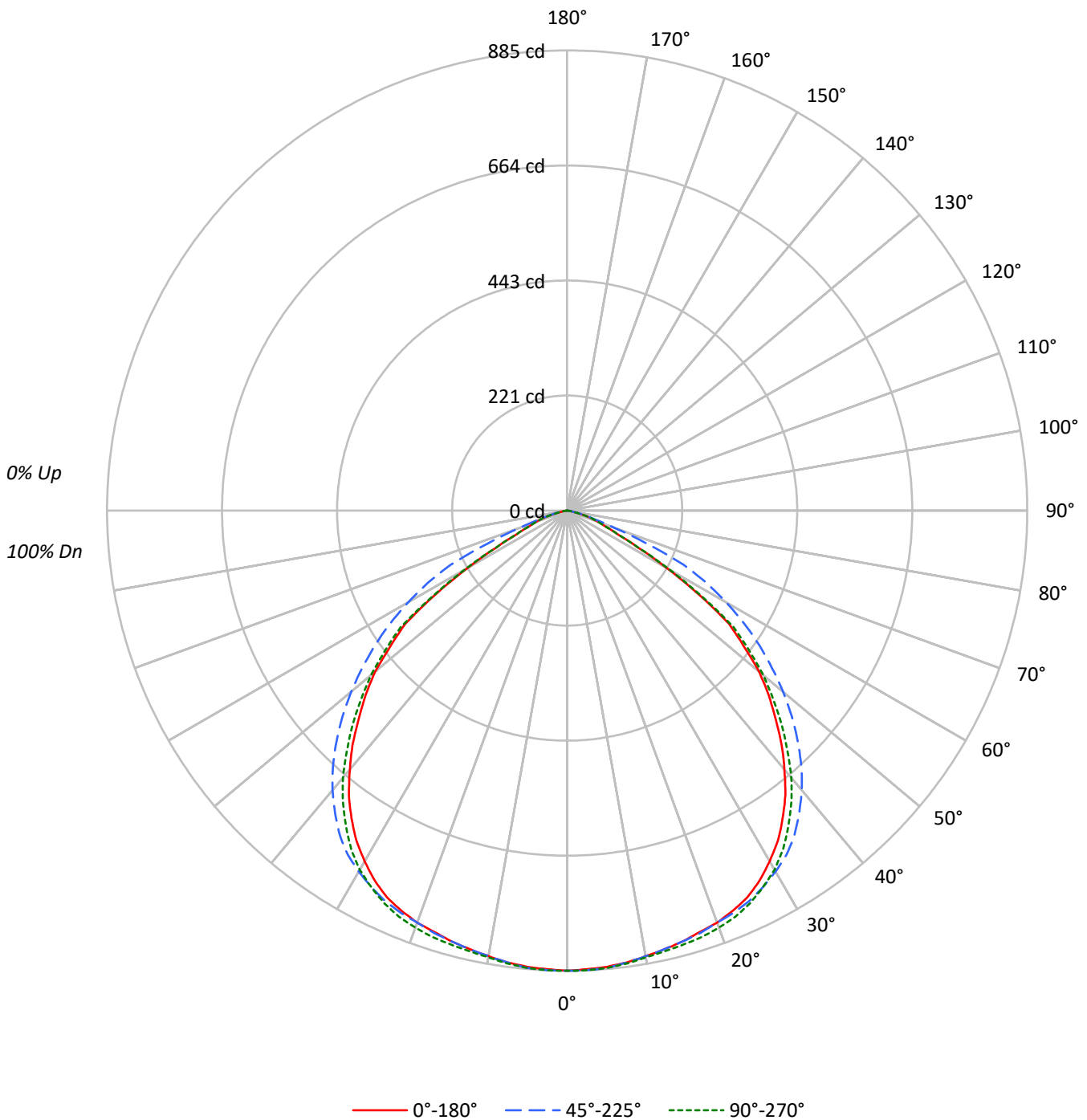
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P253020

CATALOG NUMBER: PRS620D010-S6M12-64SWDMW-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P253020

CATALOG NUMBER: PRS620D010-S6M12-64SWDMW-3000K

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

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

	0°	45°	90°
0°	38100	38100	38100
5°	38064	38155	38155
10°	38049	38049	38141
15°	38240	38240	38517
20°	38639	38639	39116
25°	38979	39374	39568
30°	38724	39863	39654
35°	37991	40067	38974
40°	36539	39462	37708
45°	34531	38196	35541
50°	32279	36311	32976
55°	28532	33832	29313
60°	19143	30406	19676
65°	10789	25184	10789
70°	8107	12287	7843
75°	4841	5523	5190
80°	2058	2579	2058
85°	1037	1037	1037



TEST NUMBER: P253020

CATALOG NUMBER: PRS620D010-S6M12-64SWDMW-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.8	3.8
10°-20°	243.1	11.0
20°-30°	380.9	17.3
30°-40°	465.4	21.1
40°-50°	462.7	21.0
50°-60°	365.3	16.6
60°-70°	163.5	7.4
70°-80°	38.1	1.7
80°-90°	4.0	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°	707.9	32.1
0°-40°	1173.3	53.2
0°-60°	2001.3	90.7
0°-90°	2206.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2206.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	885	885	885	885	885	
5°	881	881	883	883	883	84
15°	858	856	858	860	864	243
25°	820	823	829	831	833	377
35°	723	737	762	752	742	451
45°	567	594	627	609	584	438
55°	380	409	451	418	390	325
65°	106	139	247	141	106	119
75°	29	35	33	35	31	33
85°	2	2	2	2	2	4
90°	0	0	0	0	0	



TEST NUMBER: P253020

CATALOG NUMBER: PRS620D010-S6M12-64SWDMW-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	884.9	884.9	884.9	884.9	884.9
2.5°	882.8	884.9	884.9	884.9	884.9
5°	880.7	880.7	882.8	882.8	882.8
7.5°	876.6	876.6	876.6	878.6	878.6
10°	870.3	870.3	870.3	872.4	872.4
12.5°	864.1	864.1	864.1	866.2	868.2
15°	857.9	855.8	857.9	859.9	864.1
17.5°	849.6	851.6	851.6	855.8	859.9
20°	843.3	843.3	843.3	849.6	853.7
22.5°	832.9	832.9	837.1	841.2	845.4
25°	820.5	822.6	828.8	830.9	832.9
27.5°	801.8	808.0	816.3	818.4	816.3
30°	778.9	787.2	801.8	799.7	797.6
32.5°	754.0	764.4	785.2	778.9	772.7
35°	722.8	737.4	762.3	751.9	741.5
37.5°	689.6	708.3	733.2	722.8	708.3
40°	650.1	673.0	702.1	687.5	670.9
42.5°	610.7	635.6	666.8	648.1	627.3
45°	567.1	594.1	627.3	608.6	583.7
47.5°	525.5	552.5	585.8	562.9	538.0
50°	481.9	506.8	542.1	517.2	492.3
52.5°	427.9	461.1	496.4	469.4	440.4
55°	380.1	409.2	450.7	417.5	390.5
57.5°	299.1	357.3	403.0	363.5	307.4
60°	222.3	278.3	353.1	286.6	228.5
62.5°	153.7	205.6	303.3	207.7	155.8
65°	105.9	139.2	247.2	141.2	105.9
67.5°	78.9	93.5	166.2	93.5	78.9
70°	64.4	68.5	97.6	68.5	62.3
72.5°	47.8	54.0	54.0	54.0	49.9
75°	29.1	35.3	33.2	35.3	31.2
77.5°	12.5	16.6	20.8	18.7	12.5
80°	8.3	8.3	10.4	8.3	8.3
82.5°	6.2	6.2	6.2	6.2	6.2
85°	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	2.1	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)