

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: P238230

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238230  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-19)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS620D010-S6M12-61SNDH-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2344.0 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.84  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

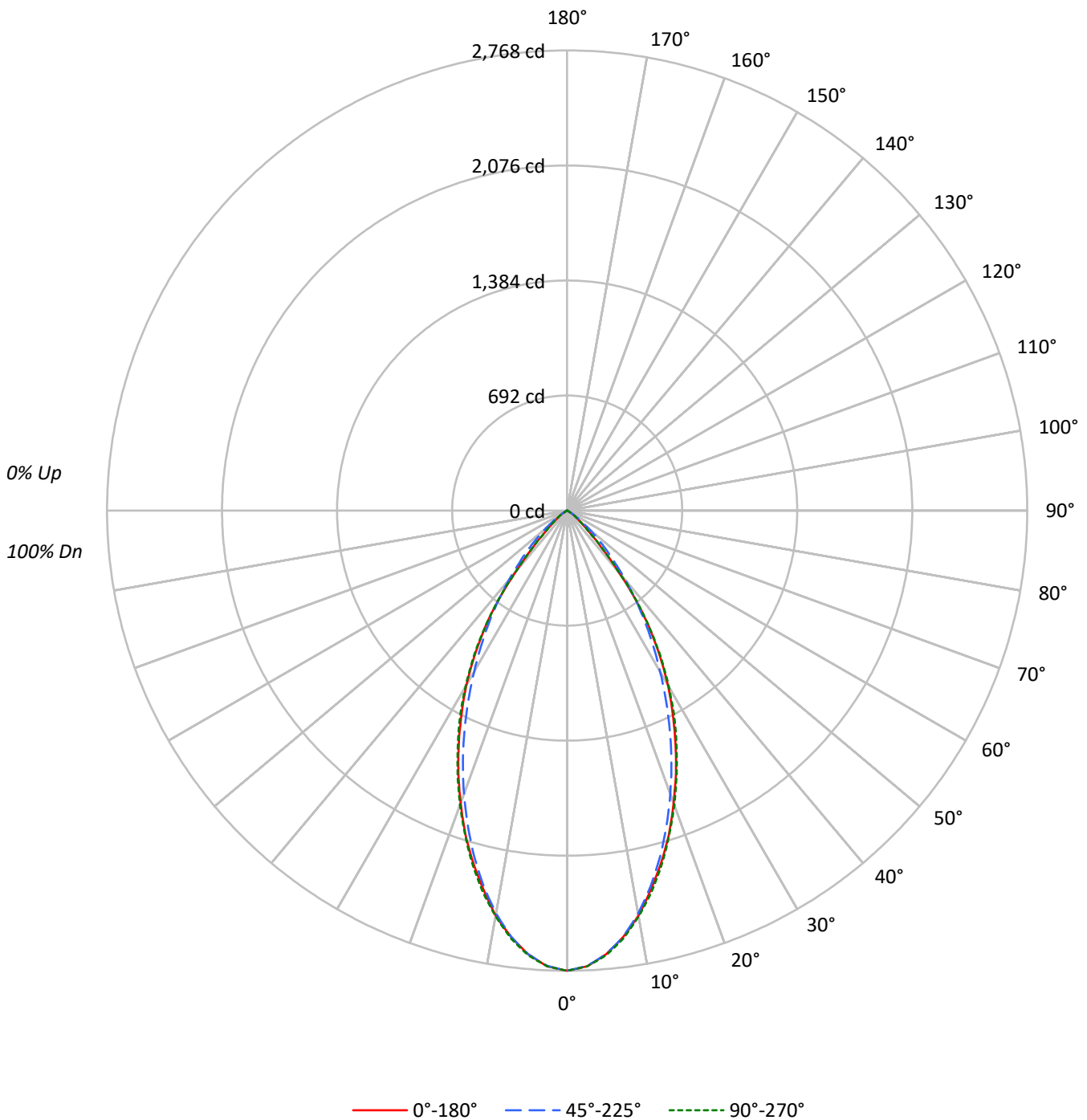
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59
8	78	68	62	58	77	68	62	58	66	61	57	65	61	57	64	60	57	55
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	57	53	52
10	71	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49

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

	0°	45°	90°
0°	119165	119165	119165
5°	115791	115791	116072
10°	108163	107599	108355
15°	97578	96134	98153
20°	85759	83088	86355
25°	73227	69431	73944
30°	60321	55598	60748
35°	45502	42890	45728
40°	27299	30576	27299
45°	12884	19978	12884
50°	6651	11421	6504
55°	3731	5022	3731
60°	1490	2230	1490
65°	438	876	438
70°	277	277	277
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.1	10.6
10°-20°	605.6	25.8
20°-30°	686.9	29.3
30°-40°	519.5	22.2
40°-50°	218.1	9.3
50°-60°	56.5	2.4
60°-70°	7.3	0.3
70°-80°	0.9	0.0
80°-90°	0.0	0.0
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°	1541.7	65.8
0°-40°	2061.2	87.9
0°-60°	2335.9	99.7
0°-90°	2344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2344.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2768	2768	2768	2768	2768	
5°	2679	2681	2679	2684	2686	249
15°	2189	2174	2157	2178	2202	610
25°	1541	1498	1462	1507	1556	705
35°	866	829	816	836	870	530
45°	212	259	328	259	212	183
55°	50	58	67	58	50	47
65°	4	2	9	2	4	5
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2767.7	2767.7	2767.7	2767.7	2767.7
2.5°	2743.9	2741.7	2741.7	2743.9	2743.9
5°	2679.1	2681.3	2679.1	2683.5	2685.6
7.5°	2586.3	2586.3	2584.1	2588.5	2594.9
10°	2474.0	2465.4	2461.1	2469.7	2478.4
12.5°	2331.6	2325.1	2316.5	2331.6	2348.8
15°	2189.1	2174.0	2156.7	2178.3	2202.0
17.5°	2038.0	2007.7	1988.3	2016.4	2042.3
20°	1871.7	1841.5	1813.4	1843.7	1884.7
22.5°	1709.8	1666.6	1638.6	1673.1	1720.6
25°	1541.4	1498.2	1461.5	1506.9	1556.5
27.5°	1373.0	1327.7	1286.7	1336.3	1394.6
30°	1213.3	1157.1	1118.3	1170.1	1221.9
32.5°	1036.2	984.4	962.8	999.5	1053.5
35°	865.7	829.0	816.0	835.5	870.0
37.5°	680.0	671.4	675.7	684.4	690.8
40°	485.7	526.8	544.0	528.9	485.7
42.5°	323.8	380.0	425.3	380.0	328.1
45°	211.6	259.1	328.1	259.1	211.6
47.5°	138.2	174.9	244.0	172.7	138.2
50°	99.3	116.6	170.5	116.6	97.1
52.5°	71.2	82.0	110.1	82.0	71.2
55°	49.7	58.3	66.9	58.3	49.7
57.5°	32.4	38.9	38.9	38.9	32.4
60°	17.3	23.7	25.9	23.7	17.3
62.5°	4.3	10.8	15.1	10.8	4.3
65°	4.3	2.2	8.6	2.2	4.3
67.5°	2.2	2.2	4.3	2.2	2.2
70°	2.2	2.2	2.2	2.2	2.2
72.5°	2.2	2.2	2.2	2.2	2.2
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)