

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: P238220

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238220  
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-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2256.8 lumens  
Efficiency: N/A  
Efficacy: 112.8 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

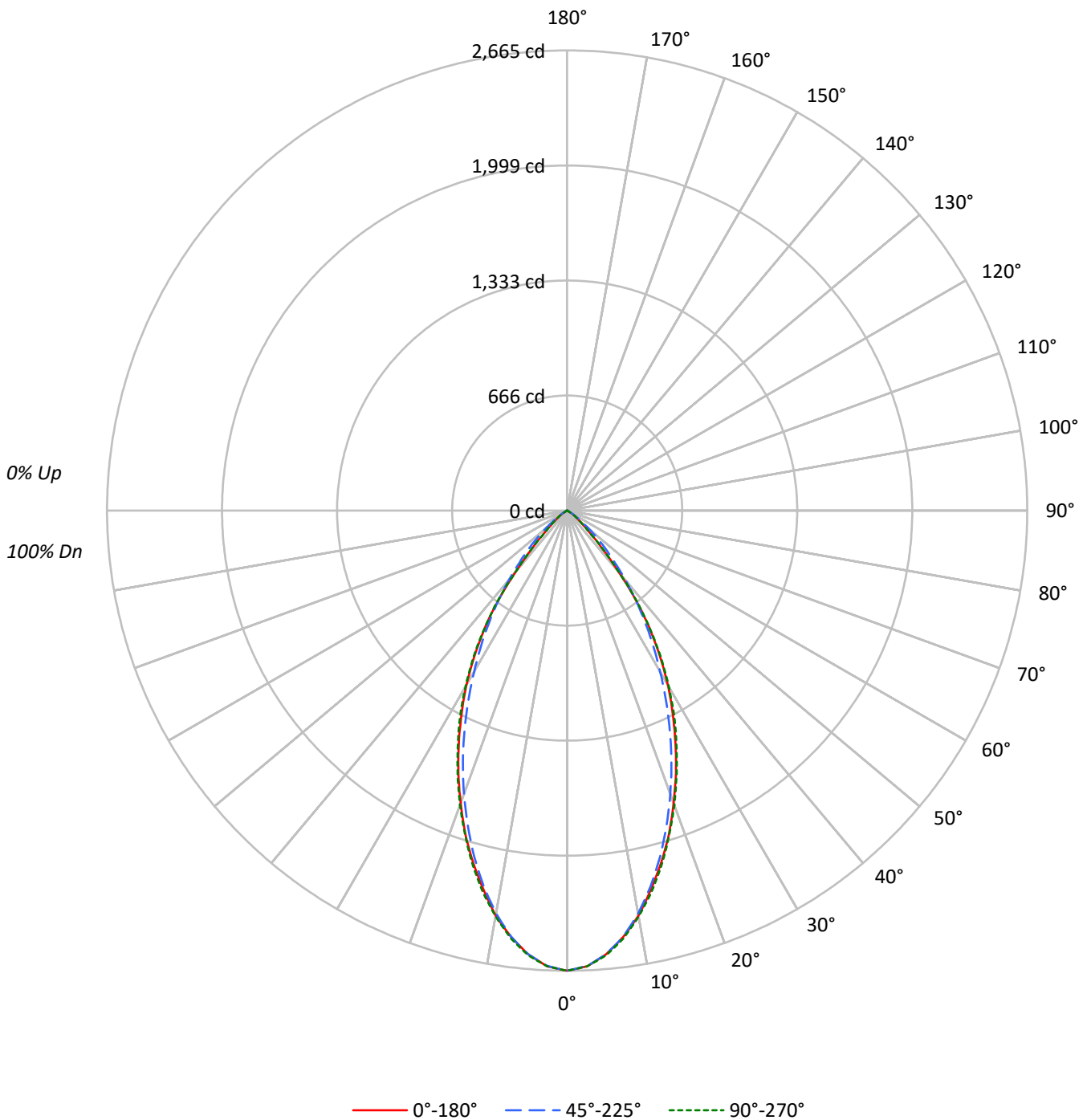
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	114730	114730	114730
5°	111486	111486	111754
10°	104141	103599	104324
15°	93950	92559	94502
20°	82570	80000	83143
25°	70505	66851	71193
30°	58074	53530	58491
35°	43810	41297	44031
40°	26287	29440	26287
45°	12403	19235	12403
50°	6404	10999	6263
55°	3588	4834	3588
60°	1429	2144	1429
65°	428	846	428
70°	264	264	264
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.9	10.6
10°-20°	583.1	25.8
20°-30°	661.4	29.3
30°-40°	500.2	22.2
40°-50°	210.0	9.3
50°-60°	54.4	2.4
60°-70°	7.0	0.3
70°-80°	0.8	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°	1484.4	65.8
0°-40°	1984.5	87.9
0°-60°	2249.0	99.7
0°-90°	2256.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2256.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2665	2665	2665	2665	2665	
5°	2580	2582	2580	2584	2586	240
15°	2108	2093	2076	2097	2120	587
25°	1484	1442	1407	1451	1499	678
35°	834	798	786	804	838	510
45°	204	249	316	249	204	176
55°	48	56	64	56	48	45
65°	4	2	8	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°	2664.7	2664.7	2664.7	2664.7	2664.7
2.5°	2641.8	2639.8	2639.8	2641.8	2641.8
5°	2579.5	2581.6	2579.5	2583.6	2585.7
7.5°	2490.1	2490.1	2488.0	2492.2	2498.4
10°	2382.0	2373.7	2369.6	2377.9	2386.2
12.5°	2244.8	2238.6	2230.3	2244.8	2261.5
15°	2107.7	2093.1	2076.5	2097.3	2120.1
17.5°	1962.2	1933.1	1914.3	1941.4	1966.3
20°	1802.1	1773.0	1746.0	1775.1	1814.6
22.5°	1646.2	1604.6	1577.6	1610.9	1656.6
25°	1484.1	1442.5	1407.2	1450.8	1498.6
27.5°	1322.0	1278.3	1238.8	1286.6	1342.7
30°	1168.1	1114.1	1076.7	1126.6	1176.5
32.5°	997.7	947.8	927.0	962.4	1014.3
35°	833.5	798.2	785.7	804.4	837.7
37.5°	654.7	646.4	650.6	658.9	665.1
40°	467.7	507.2	523.8	509.2	467.7
42.5°	311.8	365.8	409.5	365.8	315.9
45°	203.7	249.4	315.9	249.4	203.7
47.5°	133.0	168.4	234.9	166.3	133.0
50°	95.6	112.2	164.2	112.2	93.5
52.5°	68.6	79.0	106.0	79.0	68.6
55°	47.8	56.1	64.4	56.1	47.8
57.5°	31.2	37.4	37.4	37.4	31.2
60°	16.6	22.9	24.9	22.9	16.6
62.5°	4.2	10.4	14.5	10.4	4.2
65°	4.2	2.1	8.3	2.1	4.2
67.5°	2.1	2.1	4.2	2.1	2.1
70°	2.1	2.1	2.1	2.1	2.1
72.5°	2.1	2.1	2.1	2.1	2.1
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)