

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO COMMERCIAL

Report Number: P838464

Luminaire Tested: HCSQ625D010-HM60525835-61SQC

Issue Date: 5/21/2024

Test Information

Test Method: LM-79-2019
Report Number: P838464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2309-166-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCSQ625D010-HM60525835-61SQC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: -

Summary

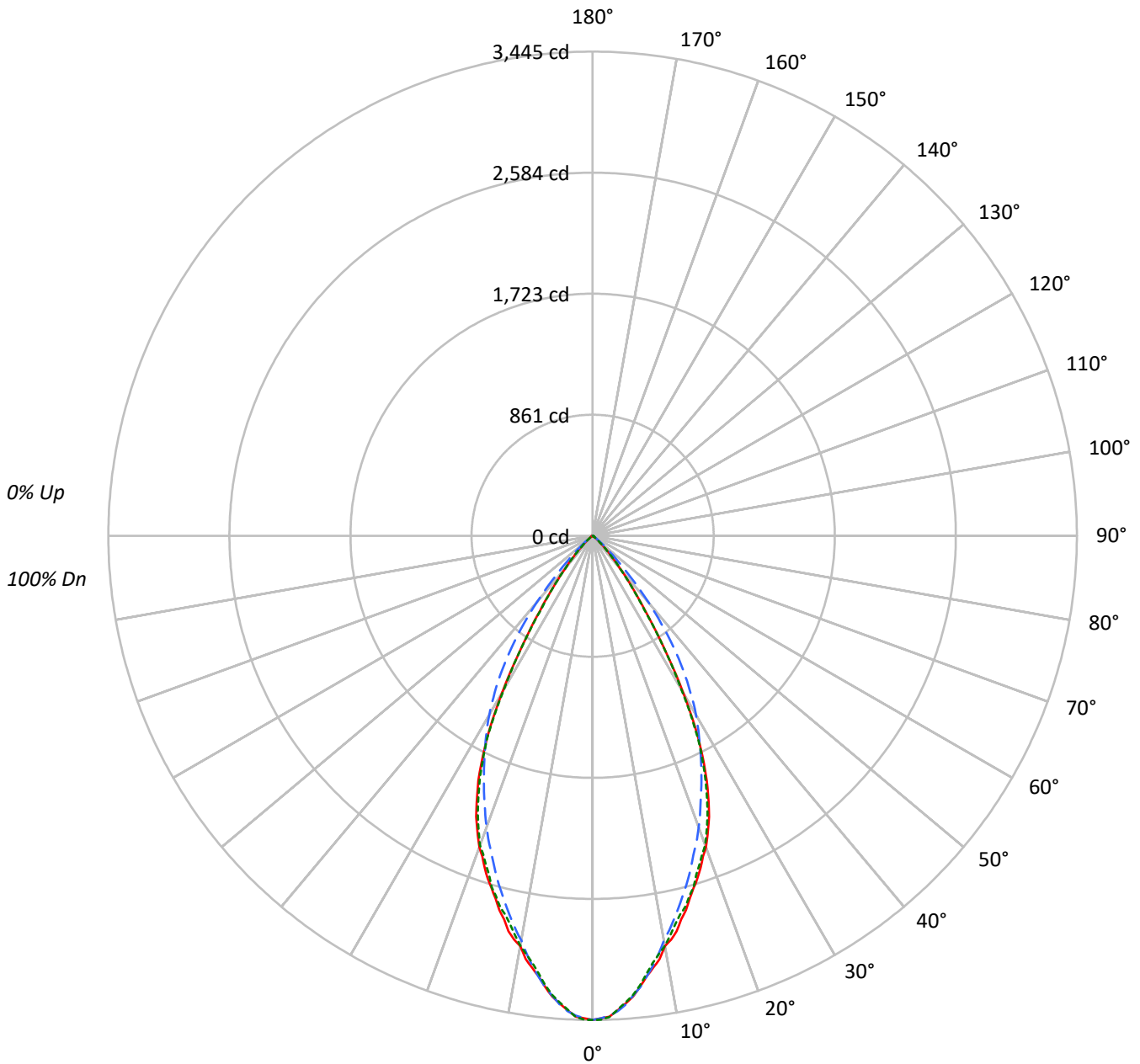
Lumens per Lamp: N/A
Luminaire Lumens: 2580.3 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.81 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (A_{in}): 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: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76																			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71																			
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66																			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	56	55																			
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	148314	148314	148314
5°	142268	142017	141818
10°	129577	127815	129476
15°	119081	114721	118363
20°	108068	101109	107331
25°	91332	86909	90077
30°	63950	73158	62861
35°	34349	56120	33681
40°	17008	34724	16878
45°	7429	14644	7289
50°	2391	5318	2391
55°	1209	1727	1126
60°	792	792	792
65°	591	591	591
70°	441	441	441
75°	383	383	383
80°	298	298	298
85°	593	593	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14644 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.5	11.7
10°-20°	730.4	28.3
20°-30°	843.8	32.7
30°-40°	526.9	20.4
40°-50°	146.4	5.7
50°-60°	20.5	0.8
60°-70°	6.1	0.2
70°-80°	2.6	0.1
80°-90°	1.1	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°	1876.7	72.7
0°-40°	2403.6	93.2
0°-60°	2570.5	99.6
0°-90°	2580.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2580.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3445	3445	3445	3445	3445	
5°	3292	3282	3286	3281	3281	303
15°	2672	2621	2574	2614	2655	748
25°	1922	1866	1829	1865	1896	859
35°	654	806	1068	797	641	434
45°	122	155	240	154	120	106
55°	16	16	23	16	15	16
65°	6	6	6	6	6	6
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3444.7	3444.7	3444.7	3444.7	3444.7
1°	3434.3	3434.3	3434.3	3443.6	3443.6
2°	3424.0	3421.7	3415.9	3422.8	3426.3
3°	3381.4	3386.0	3388.3	3384.9	3376.8
4°	3337.7	3333.1	3345.8	3337.7	3330.8
5°	3291.7	3282.5	3285.9	3281.3	3281.3
6°	3227.3	3238.8	3229.6	3221.5	3216.9
7°	3157.1	3166.3	3160.5	3149.0	3141.0
8°	3101.8	3096.1	3086.9	3084.6	3070.8
9°	3048.9	3028.2	3007.5	3011.0	3014.4
10°	2963.8	2966.1	2923.5	2955.7	2961.5
11°	2928.1	2915.5	2859.1	2885.5	2894.7
12°	2876.3	2836.1	2787.7	2809.6	2826.9
13°	2801.6	2760.1	2716.4	2749.8	2767.0
14°	2745.2	2698.0	2642.8	2685.4	2721.0
15°	2671.5	2620.9	2573.7	2614.0	2655.4
16°	2607.1	2548.4	2501.3	2540.4	2602.5
17°	2550.7	2478.3	2420.7	2462.1	2522.0
18°	2485.2	2401.2	2348.2	2392.0	2459.8
19°	2412.7	2327.5	2280.4	2316.0	2394.3
20°	2358.6	2263.1	2206.7	2241.2	2342.5
22.5°	2165.3	2065.2	2013.4	2054.9	2135.4
25°	1922.5	1866.2	1829.4	1865.0	1896.1
27.5°	1634.9	1634.9	1647.6	1632.6	1623.4
30°	1286.3	1379.5	1471.5	1374.9	1264.4
32.5°	938.8	1088.4	1273.6	1108.0	937.7
35°	653.5	806.5	1067.7	797.3	640.8
37.5°	454.5	555.7	842.2	561.5	448.7
40°	302.6	372.8	617.8	379.7	300.3
42.5°	197.9	246.2	399.2	247.4	193.3
45°	122.0	155.3	240.5	154.2	119.7
47.5°	71.3	92.0	140.4	93.2	70.2
50°	35.7	54.1	79.4	52.9	35.7
52.5°	20.7	28.8	43.7	27.6	20.7
55°	16.1	16.1	23.0	16.1	15.0
57.5°	12.7	12.7	12.7	12.7	11.5
60°	9.2	10.4	9.2	9.2	9.2
62.5°	8.1	8.1	6.9	8.1	6.9
65°	5.8	5.8	5.8	5.8	5.8
67.5°	4.6	4.6	4.6	4.6	4.6
70°	3.5	3.5	3.5	3.5	3.5
72.5°	2.3	3.5	2.3	3.5	3.5
75°	2.3	2.3	2.3	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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77.5°	2.3	2.3	2.3	2.3	1.2
80°	1.2	1.2	1.2	1.2	1.2

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(END OF REPORT)