

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: P838320

Luminaire Tested: HCSQ607D010-HM60525930-61SQH

Issue Date: 5/21/2024

Test Information

Test Method: LM-79-2019
Report Number: P838320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2309-166-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCSQ607D010-HM60525930-61SQH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

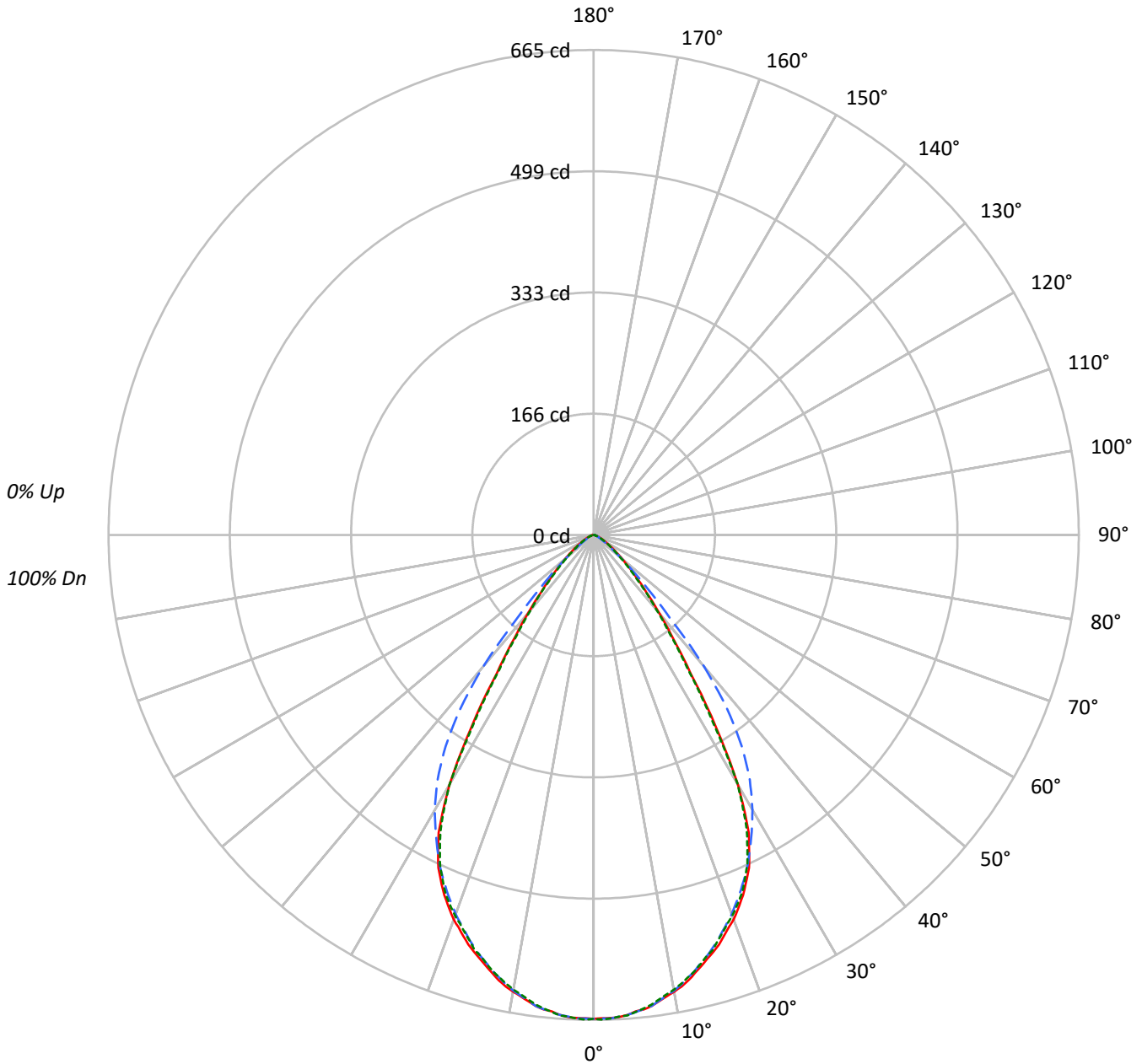
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 746.4 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.01 / 1.04
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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: 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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85																			
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78																			
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71																			
5	90	80	74	69	88	79	74	69	78	72	68	76	71	68	74	70	67	66																			
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61																			
7	80	70	63	59	78	69	63	59	68	62	58	67	62	58	65	61	58	56																			
8	76	65	59	54	74	65	59	54	64	58	54	63	57	54	62	57	54	52																			
9	72	61	55	51	70	61	55	50	60	54	50	59	54	50	58	53	50	48																			
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28572	28572	28572
5°	28348	28396	28383
10°	27806	27745	27679
15°	26825	26678	26660
20°	25718	25347	25466
25°	23939	23730	23677
30°	19673	21647	19618
35°	12152	18591	11858
40°	7801	13180	7531
45°	5090	6387	4841
50°	3376	3182	3155
55°	2297	1659	2124
60°	1550	1016	1429
65°	1090	754	978
70°	692	554	655
75°	482	433	433
80°	372	273	273
85°	198	346	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6387 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	8.3
10°-20°	168.2	22.5
20°-30°	227.1	30.4
30°-40°	177.2	23.7
40°-50°	74.2	9.9
50°-60°	25.2	3.4
60°-70°	9.0	1.2
70°-80°	2.9	0.4
80°-90°	0.6	0.1
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°	457.3	61.3
0°-40°	634.5	85.0
0°-60°	733.9	98.3
0°-90°	746.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	746.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	656	657	657	656	657	62
15°	602	600	598	598	598	169
25°	504	502	500	500	498	227
35°	231	271	354	271	226	152
45°	84	89	105	85	80	67
55°	31	28	22	26	28	28
65°	11	9	7	8	10	11
75°	3	3	3	3	3	3
85°	0	0	1	0	0	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	663.6	663.6	663.6	663.6	663.6
1°	662.9	664.0	663.3	663.6	664.8
2°	662.9	662.9	663.6	663.3	663.6
3°	662.2	662.2	661.4	661.4	661.4
4°	660.0	660.0	660.0	659.2	660.7
5°	655.9	656.7	657.0	655.9	656.7
6°	654.4	654.8	654.1	653.7	653.0
7°	651.1	650.0	651.1	648.6	648.9
8°	645.6	645.6	644.9	644.1	643.4
9°	640.5	640.5	639.7	638.6	637.9
10°	636.0	634.9	634.6	633.5	633.1
11°	630.9	628.7	628.3	627.2	627.2
12°	624.6	623.5	620.9	620.6	620.6
13°	616.9	615.8	614.0	612.5	614.0
14°	609.5	608.8	605.5	606.6	606.2
15°	601.8	600.3	598.5	597.8	598.1
16°	594.8	592.2	589.7	590.0	592.2
17°	587.5	583.8	581.2	580.8	581.9
18°	578.3	575.3	571.3	572.7	572.7
19°	569.1	565.0	562.4	562.1	563.5
20°	561.3	555.1	553.2	552.9	555.8
22.5°	534.8	528.6	527.1	528.6	531.5
25°	503.9	501.7	499.5	499.5	498.4
27.5°	460.1	465.3	467.8	462.7	454.2
30°	395.7	417.4	435.4	414.8	394.6
32.5°	311.8	356.7	398.3	355.6	304.4
35°	231.2	271.3	353.7	270.9	225.6
37.5°	178.2	203.9	300.7	200.6	173.0
40°	138.8	153.9	234.5	152.0	134.0
42.5°	107.8	117.4	156.1	115.2	104.2
45°	83.6	89.4	104.9	85.4	79.5
47.5°	65.2	67.7	71.8	64.8	61.5
50°	50.4	50.4	47.5	48.6	47.1
52.5°	39.0	37.5	32.0	35.3	36.1
55°	30.6	28.0	22.1	26.5	28.3
57.5°	23.2	20.6	15.8	19.5	21.3
60°	18.0	15.5	11.8	14.7	16.6
62.5°	14.0	11.8	9.2	11.0	12.5
65°	10.7	8.8	7.4	8.5	9.6
67.5°	8.1	6.6	5.5	6.3	7.4
70°	5.5	5.2	4.4	4.8	5.2
72.5°	4.0	3.7	3.3	3.3	3.7
75°	2.9	2.6	2.6	2.6	2.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.4	0.4	0.7	0.4	0.4
87.5°	0.4	0.4	0.4	0.4	0.4
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

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Scaled Data Report





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

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77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.5	1.5	1.1	1.1	1.1

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Scaled Data Report



(END OF REPORT)