

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: P838325

Luminaire Tested: HCSQ607D010-HM60525935-61SQH

Issue Date: 5/21/2024

Test Information

Test Method: LM-79-2019
Report Number: P838325
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-HM60525935-61SQH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

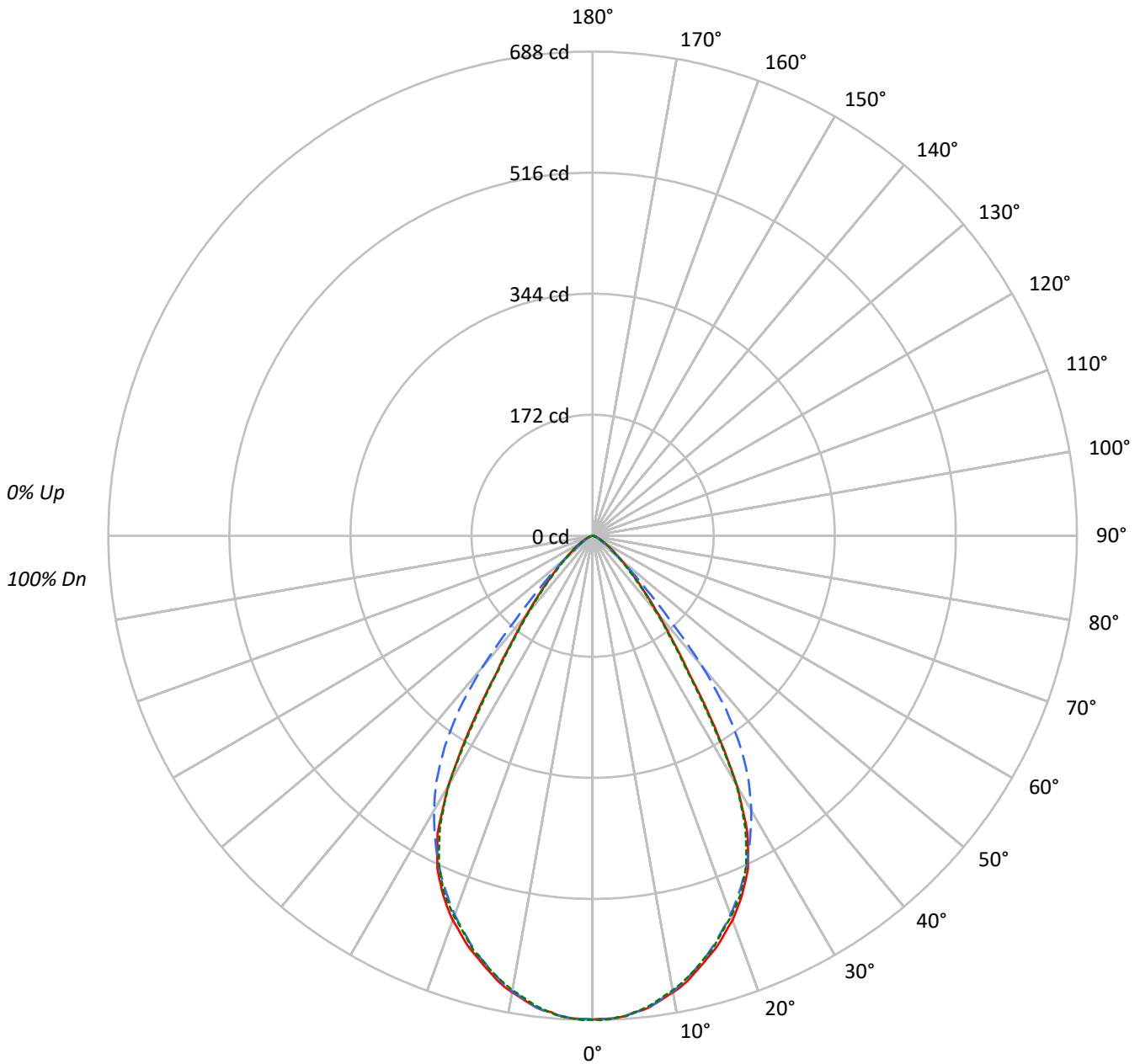
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 773.1 lumens
Efficiency: N/A
Efficacy: 96.6 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 (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					70					50					30				
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	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°	29596	29596	29596
5°	29364	29411	29398
10°	28803	28737	28671
15°	27788	27632	27614
20°	26639	26254	26378
25°	24794	24580	24523
30°	20374	22422	20319
35°	12583	19258	12284
40°	8077	13652	7801
45°	5267	6619	5017
50°	3496	3296	3269
55°	2372	1719	2207
60°	1610	1051	1481
65°	1131	774	1009
70°	718	579	667
75°	516	449	449
80°	372	273	273
85°	198	395	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6619 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	8.3
10°-20°	174.2	22.5
20°-30°	235.2	30.4
30°-40°	183.6	23.7
40°-50°	76.9	9.9
50°-60°	26.1	3.4
60°-70°	9.3	1.2
70°-80°	3.0	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°	473.6	61.3
0°-40°	657.2	85.0
0°-60°	760.2	98.3
0°-90°	773.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	773.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	679	680	680	679	680	64
15°	623	622	620	619	620	175
25°	522	520	517	517	516	235
35°	239	281	366	281	234	157
45°	86	93	109	88	82	69
55°	32	29	23	28	29	29
65°	11	9	8	9	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°	687.4	687.4	687.4	687.4	687.4
1°	686.6	687.8	687.0	687.4	688.5
2°	686.6	686.6	687.4	687.0	687.4
3°	685.9	685.9	685.1	685.1	685.1
4°	683.6	683.6	683.6	682.8	684.4
5°	679.4	680.2	680.5	679.4	680.2
6°	677.9	678.3	677.5	677.1	676.3
7°	674.4	673.3	674.4	671.8	672.2
8°	668.7	668.7	668.0	667.2	666.4
9°	663.4	663.4	662.6	661.5	660.7
10°	658.8	657.7	657.3	656.1	655.8
11°	653.5	651.2	650.8	649.7	649.7
12°	647.0	645.8	643.2	642.8	642.8
13°	639.0	637.8	635.9	634.4	635.9
14°	631.4	630.6	627.2	628.3	627.9
15°	623.4	621.8	619.9	619.2	619.5
16°	616.1	613.4	610.8	611.2	613.4
17°	608.5	604.7	602.0	601.6	602.8
18°	599.0	595.9	591.7	593.2	593.2
19°	589.4	585.2	582.6	582.2	583.7
20°	581.4	574.9	573.0	572.6	575.7
22.5°	554.0	547.5	546.0	547.5	550.5
25°	521.9	519.7	517.4	517.4	516.2
27.5°	476.6	481.9	484.6	479.2	470.5
30°	409.8	432.3	451.0	429.7	408.7
32.5°	322.9	369.4	412.5	368.3	315.3
35°	239.4	281.0	366.4	280.6	233.7
37.5°	184.5	211.2	311.5	207.8	179.2
40°	143.7	159.4	242.9	157.5	138.8
42.5°	111.7	121.6	161.7	119.3	107.9
45°	86.5	92.6	108.7	88.5	82.4
47.5°	67.5	70.2	74.3	67.1	63.7
50°	52.2	52.2	49.2	50.3	48.8
52.5°	40.4	38.9	33.2	36.6	37.4
55°	31.6	29.0	22.9	27.5	29.4
57.5°	24.0	21.4	16.4	20.2	22.1
60°	18.7	16.0	12.2	15.3	17.2
62.5°	14.5	12.2	9.5	11.4	13.0
65°	11.1	9.2	7.6	8.8	9.9
67.5°	8.4	6.9	5.7	6.5	7.6
70°	5.7	5.3	4.6	5.0	5.3
72.5°	4.2	3.8	3.4	3.4	3.8
75°	3.1	2.7	2.7	2.7	2.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.4	0.8	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

Scaled Data Report



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Scaled Data Report





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

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77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.5	1.5	1.1	1.1	1.1

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Scaled Data Report



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