

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: P838305

Luminaire Tested: HCSQ607D010-HM60525835-61SQH

Issue Date: 5/21/2024

Test Information

Test Method: LM-79-2019
Report Number: P838305
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-HM60525835-61SQH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: -

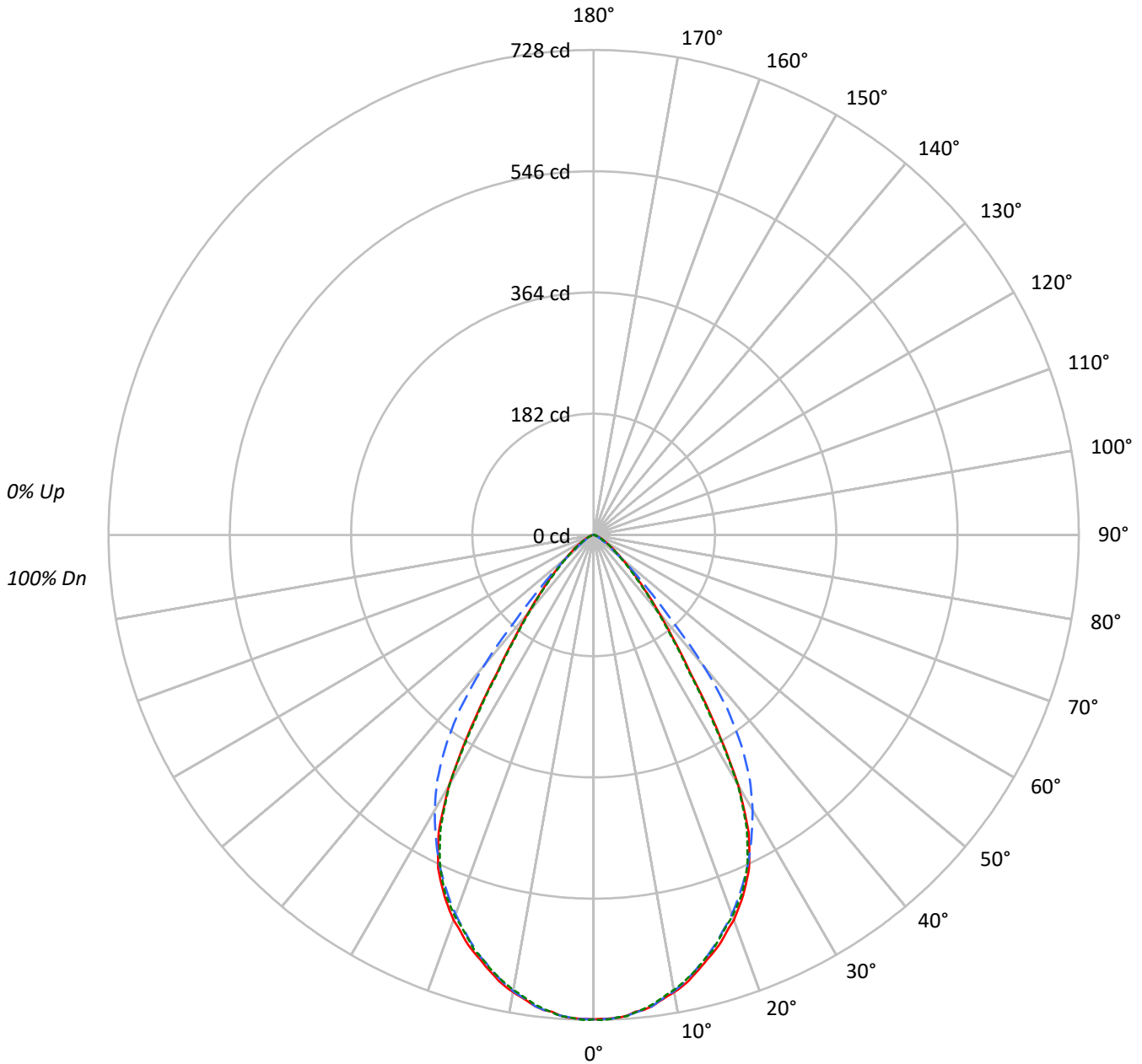
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 817.8 lumens
Efficiency: N/A
Efficacy: 102.2 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									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				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	79	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°	31310	31310	31310
5°	31062	31114	31097
10°	30468	30398	30328
15°	29392	29232	29214
20°	28183	27775	27904
25°	26228	26000	25943
30°	21557	23720	21497
35°	13314	20373	12993
40°	8543	14439	8251
45°	5578	6996	5304
50°	3704	3483	3456
55°	2515	1817	2335
60°	1705	1111	1559
65°	1192	825	1070
70°	755	604	705
75°	532	466	466
80°	397	298	298
85°	198	395	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6996 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	8.3
10°-20°	184.3	22.5
20°-30°	248.8	30.4
30°-40°	194.2	23.7
40°-50°	81.3	9.9
50°-60°	27.6	3.4
60°-70°	9.8	1.2
70°-80°	3.2	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°	501.1	61.3
0°-40°	695.2	85.0
0°-60°	804.2	98.3
0°-90°	817.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	817.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	719	720	720	719	720	68
15°	659	658	656	655	655	185
25°	552	550	547	547	546	248
35°	253	297	388	297	247	167
45°	92	98	115	94	87	74
55°	34	31	24	29	31	31
65°	12	10	8	9	10	12
75°	3	3	3	3	3	4
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°	727.2	727.2	727.2	727.2	727.2
1°	726.4	727.6	726.8	727.2	728.4
2°	726.4	726.4	727.2	726.8	727.2
3°	725.6	725.6	724.8	724.8	724.8
4°	723.1	723.1	723.1	722.3	723.9
5°	718.7	719.5	719.9	718.7	719.5
6°	717.1	717.5	716.7	716.3	715.5
7°	713.5	712.2	713.5	710.6	711.0
8°	707.4	707.4	706.6	705.8	705.0
9°	701.8	701.8	701.0	699.7	698.9
10°	696.9	695.7	695.3	694.1	693.7
11°	691.3	688.9	688.5	687.2	687.2
12°	684.4	683.2	680.4	680.0	680.0
13°	676.0	674.7	672.7	671.1	672.7
14°	667.9	667.1	663.4	664.7	664.3
15°	659.4	657.8	655.8	655.0	655.4
16°	651.8	648.9	646.1	646.5	648.9
17°	643.7	639.7	636.8	636.4	637.6
18°	633.6	630.4	625.9	627.6	627.6
19°	623.5	619.1	616.3	615.9	617.5
20°	615.1	608.2	606.2	605.8	609.0
22.5°	586.0	579.2	577.5	579.2	582.4
25°	552.1	549.7	547.3	547.3	546.1
27.5°	504.1	509.8	512.6	507.0	497.7
30°	433.6	457.4	477.1	454.5	432.4
32.5°	341.6	390.8	436.4	389.6	333.5
35°	253.3	297.2	387.6	296.8	247.2
37.5°	195.2	223.4	329.5	219.8	189.6
40°	152.0	168.6	256.9	166.6	146.8
42.5°	118.2	128.7	171.0	126.2	114.1
45°	91.6	98.0	114.9	93.6	87.1
47.5°	71.4	74.2	78.6	71.0	67.4
50°	55.3	55.3	52.0	53.2	51.6
52.5°	42.8	41.1	35.1	38.7	39.5
55°	33.5	30.7	24.2	29.0	31.1
57.5°	25.4	22.6	17.3	21.4	23.4
60°	19.8	16.9	12.9	16.1	18.1
62.5°	15.3	12.9	10.1	12.1	13.7
65°	11.7	9.7	8.1	9.3	10.5
67.5°	8.9	7.3	6.0	6.9	8.1
70°	6.0	5.6	4.8	5.2	5.6
72.5°	4.4	4.0	3.6	3.6	4.0
75°	3.2	2.8	2.8	2.8	2.8



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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°	2.0	2.0	2.0	2.0	2.0
80°	1.6	1.6	1.2	1.2	1.2

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Scaled Data Report



(END OF REPORT)