

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: P838260

Luminaire Tested: HCSQ605D010-HM60525830-61SQH

Issue Date: 5/21/2024

Test Information

Test Method: LM-79-2019
Report Number: P838260
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: HCSQ605D010-HM60525830-61SQH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: -

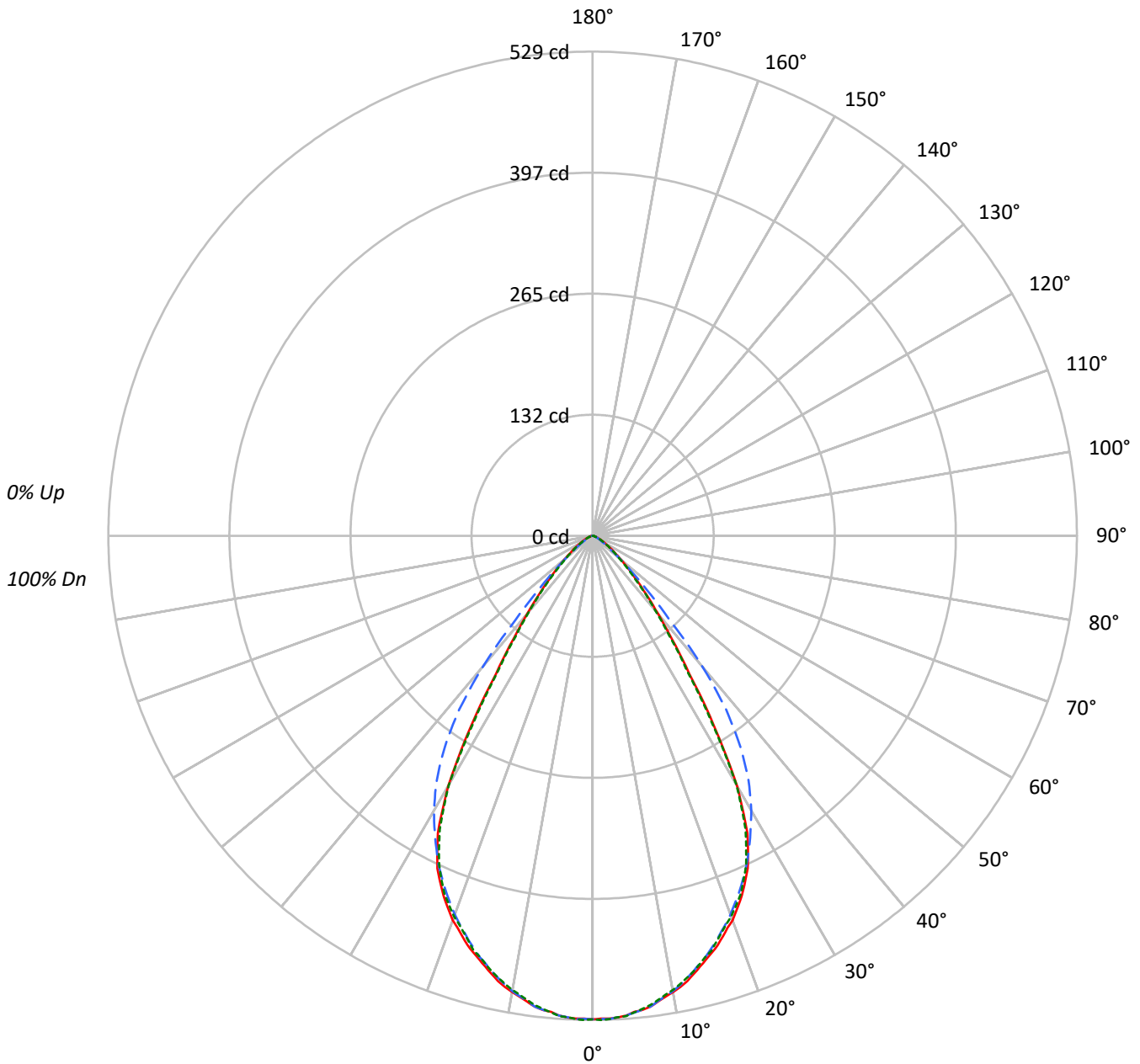
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 594.2 lumens
Efficiency: N/A
Efficacy: 99.0 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): 6
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			92																
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85																
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78																
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71			71																
5	90	80	74	69	88	79	74	69	78	72	68	76	71	68	74	70	67	66			66																
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61			61																
7	80	70	63	59	78	69	63	59	68	62	58	67	62	58	65	61	58	56			56																
8	76	65	59	54	74	65	59	54	64	58	54	63	57	54	62	57	54	52			52																
9	72	61	55	51	70	61	55	50	60	54	50	59	54	50	58	53	50	48			48																
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			45																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22746	22746	22746
5°	22570	22604	22595
10°	22135	22087	22035
15°	21356	21240	21226
20°	20476	20179	20275
25°	19055	18889	18851
30°	15661	17232	15616
35°	9671	14801	9440
40°	6211	10494	5997
45°	4049	5084	3854
50°	2686	2532	2512
55°	1824	1321	1696
60°	1240	809	1137
65°	866	601	774
70°	554	441	516
75°	383	349	349
80°	298	223	223
85°	148	296	148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 5084 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	8.3
10°-20°	133.9	22.5
20°-30°	180.8	30.4
30°-40°	141.1	23.7
40°-50°	59.1	9.9
50°-60°	20.0	3.4
60°-70°	7.1	1.2
70°-80°	2.3	0.4
80°-90°	0.5	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°	364.0	61.3
0°-40°	505.1	85.0
0°-60°	584.3	98.3
0°-90°	594.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	594.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	522	523	523	522	523	49
15°	479	478	476	476	476	135
25°	401	399	398	398	397	180
35°	184	216	282	216	180	121
45°	66	71	84	68	63	53
55°	24	22	18	21	23	22
65°	8	7	6	7	8	9
75°	2	2	2	2	2	3
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	528.3	528.3	528.3	528.3	528.3
1°	527.7	528.6	528.0	528.3	529.2
2°	527.7	527.7	528.3	528.0	528.3
3°	527.1	527.1	526.6	526.6	526.6
4°	525.4	525.4	525.4	524.8	526.0
5°	522.2	522.8	523.0	522.2	522.8
6°	521.0	521.3	520.7	520.4	519.8
7°	518.4	517.5	518.4	516.3	516.6
8°	514.0	514.0	513.4	512.8	512.2
9°	509.9	509.9	509.3	508.4	507.8
10°	506.3	505.5	505.2	504.3	504.0
11°	502.2	500.5	500.2	499.3	499.3
12°	497.3	496.4	494.3	494.0	494.0
13°	491.1	490.2	488.8	487.6	488.8
14°	485.2	484.7	482.0	482.9	482.6
15°	479.1	477.9	476.5	475.9	476.2
16°	473.5	471.5	469.4	469.7	471.5
17°	467.7	464.7	462.7	462.4	463.3
18°	460.3	458.0	454.8	455.9	455.9
19°	453.0	449.8	447.7	447.4	448.6
20°	446.9	441.9	440.4	440.1	442.5
22.5°	425.8	420.8	419.6	420.8	423.1
25°	401.1	399.4	397.6	397.6	396.8
27.5°	366.3	370.4	372.4	368.3	361.6
30°	315.0	332.3	346.6	330.2	314.1
32.5°	248.2	283.9	317.1	283.1	242.3
35°	184.0	216.0	281.6	215.7	179.6
37.5°	141.8	162.3	239.4	159.7	137.7
40°	110.5	122.5	186.7	121.0	106.7
42.5°	85.9	93.5	124.2	91.7	82.9
45°	66.5	71.2	83.5	68.0	63.3
47.5°	51.9	53.9	57.1	51.6	48.9
50°	40.1	40.1	37.8	38.7	37.5
52.5°	31.1	29.9	25.5	28.1	28.7
55°	24.3	22.3	17.6	21.1	22.6
57.5°	18.5	16.4	12.6	15.5	17.0
60°	14.4	12.3	9.4	11.7	13.2
62.5°	11.1	9.4	7.3	8.8	10.0
65°	8.5	7.0	5.9	6.7	7.6
67.5°	6.4	5.3	4.4	5.0	5.9
70°	4.4	4.1	3.5	3.8	4.1
72.5°	3.2	2.9	2.6	2.6	2.9
75°	2.3	2.1	2.1	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.3	0.3	0.6	0.3	0.3
87.5°	0.3	0.3	0.3	0.3	0.3
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°	1.5	1.5	1.5	1.5	1.5
80°	1.2	1.2	0.9	0.9	0.9

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Scaled Data Report



(END OF REPORT)