

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: P838307

Luminaire Tested: HCSQ607D010-HM60525835-61SQMB

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-2019
Report Number: P838307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2309-166-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCSQ607D010-HM60525835-61SQMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, MATTE BLACK TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: -

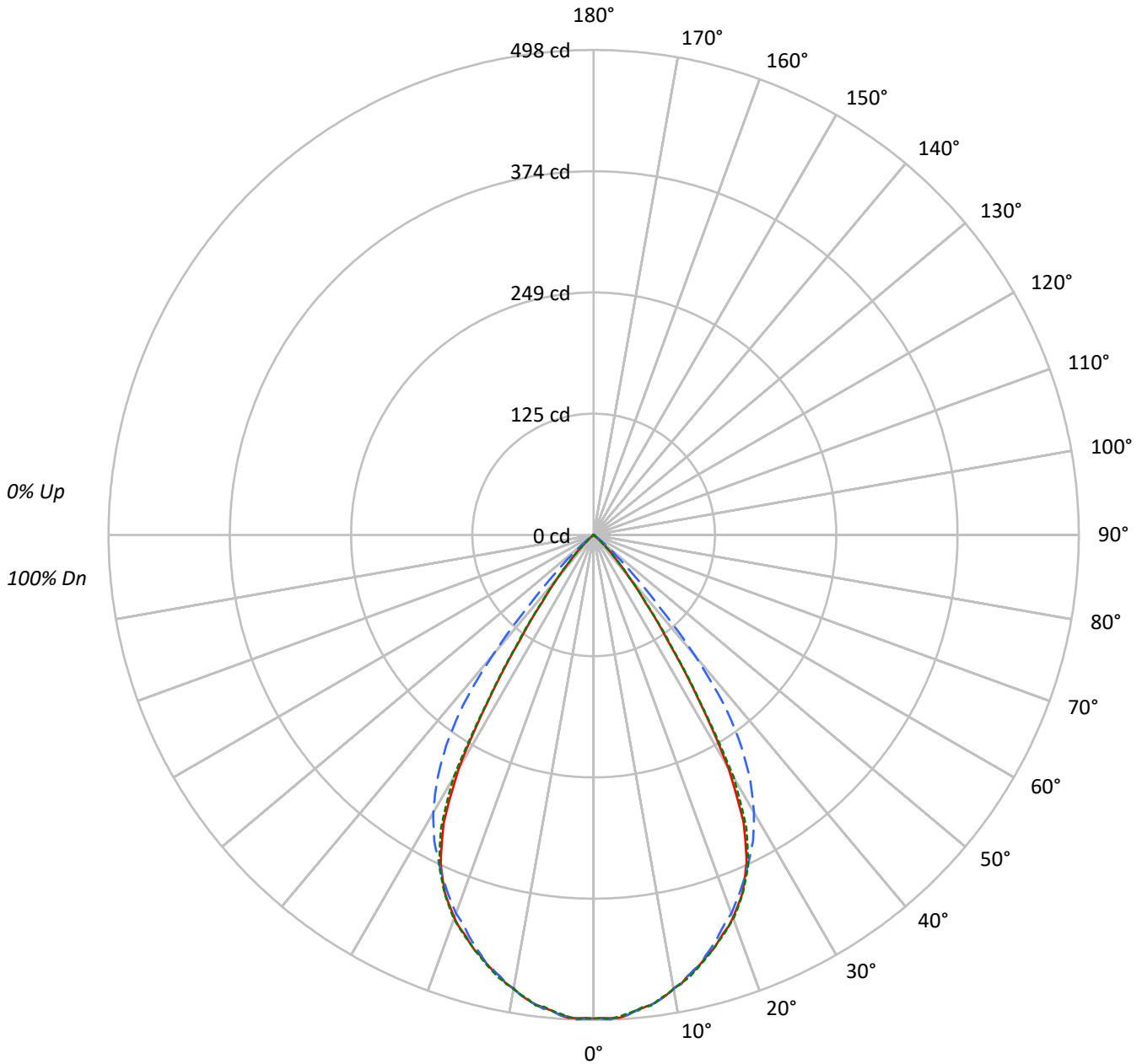
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 493.6 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.01 / 1.03
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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CATALOG NUMBER: HCSQ607D010-HM60525835-61SQMB

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					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	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	106	104	105	103	101	101	99	98	97	96	95	93								
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87								
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	85	82	81								
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75								
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70								
6	87	78	72	68	86	77	72	68	76	71	67	75	70	67	73	69	66	65								
7	83	73	67	63	81	73	67	63	71	66	63	70	66	62	69	65	62	60								
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56								
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53								
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21381	21381	21381
5°	21199	21217	21199
10°	20671	20706	20706
15°	19956	19903	20014
20°	19166	18946	19221
25°	17649	17782	17820
30°	13757	16367	14279
35°	6975	13866	7232
40°	3176	9072	3176
45°	1230	3416	1206
50°	188	1078	188
55°	60	210	60
60°	34	34	34
65°	41	0	41
70°	0	0	50
75°	0	0	67
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 3416 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	9.4
10°-20°	125.7	25.5
20°-30°	169.5	34.3
30°-40°	119.2	24.1
40°-50°	30.4	6.2
50°-60°	2.1	0.4
60°-70°	0.3	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	341.6	69.2
0°-40°	460.8	93.4
0°-60°	493.3	99.9
0°-90°	493.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	493.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	497	497	497	497	497	
5°	490	491	491	491	490	46
15°	448	447	446	448	449	126
25°	372	373	374	376	375	166
35°	133	176	264	180	138	89
45°	20	30	56	31	20	18
55°	1	1	3	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	496.6	496.6	496.6	496.6	496.6
1°	496.2	496.6	497.0	497.0	496.6
2°	496.6	495.3	497.8	496.6	497.0
3°	496.6	494.1	495.3	496.2	495.7
4°	494.5	492.9	494.1	493.7	492.9
5°	490.5	491.3	490.9	491.3	490.5
6°	488.1	488.9	489.7	488.5	487.3
7°	486.1	485.7	486.1	486.9	486.9
8°	482.4	483.2	482.4	482.8	481.6
9°	478.4	478.4	478.4	479.2	478.0
10°	472.8	474.8	473.6	474.4	473.6
11°	469.9	469.1	469.1	469.5	469.1
12°	463.1	463.9	463.5	464.3	465.5
13°	459.4	459.8	458.2	460.3	460.3
14°	453.8	453.4	454.2	453.8	454.6
15°	447.7	446.9	446.5	447.7	449.0
16°	443.3	441.3	440.1	441.7	443.3
17°	436.9	434.8	433.2	436.5	436.9
18°	430.4	429.6	425.6	429.6	431.6
19°	425.2	422.3	418.7	423.1	425.6
20°	418.3	415.9	413.5	415.9	419.5
22.5°	398.5	396.5	394.5	397.3	399.3
25°	371.5	372.7	374.3	375.5	375.1
27.5°	333.2	344.1	354.2	347.7	339.2
30°	276.7	304.1	329.2	308.6	287.2
32.5°	200.5	247.3	299.3	256.5	202.5
35°	132.7	175.9	263.8	180.3	137.6
37.5°	86.3	118.2	220.2	118.6	90.4
40°	56.5	77.0	161.4	78.7	56.5
42.5°	34.7	48.8	98.0	50.8	34.7
45°	20.2	30.3	56.1	30.7	19.8
47.5°	9.3	16.5	31.9	16.1	9.7
50°	2.8	7.3	16.1	7.3	2.8
52.5°	1.2	2.0	7.7	2.0	1.2
55°	0.8	0.8	2.8	0.8	0.8
57.5°	0.8	0.4	0.8	0.8	0.8
60°	0.4	0.4	0.4	0.4	0.4
62.5°	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.0	0.4	0.4
67.5°	0.4	0.0	0.0	0.0	0.4
70°	0.0	0.0	0.0	0.0	0.4
72.5°	0.0	0.0	0.0	0.0	0.4
75°	0.0	0.0	0.0	0.0	0.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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