

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: P838327

Luminaire Tested: HCSQ607D010-HM60525935-61SQMB

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-2019
Report Number: P838327
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-HM60525935-61SQMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, MATTE BLACK TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

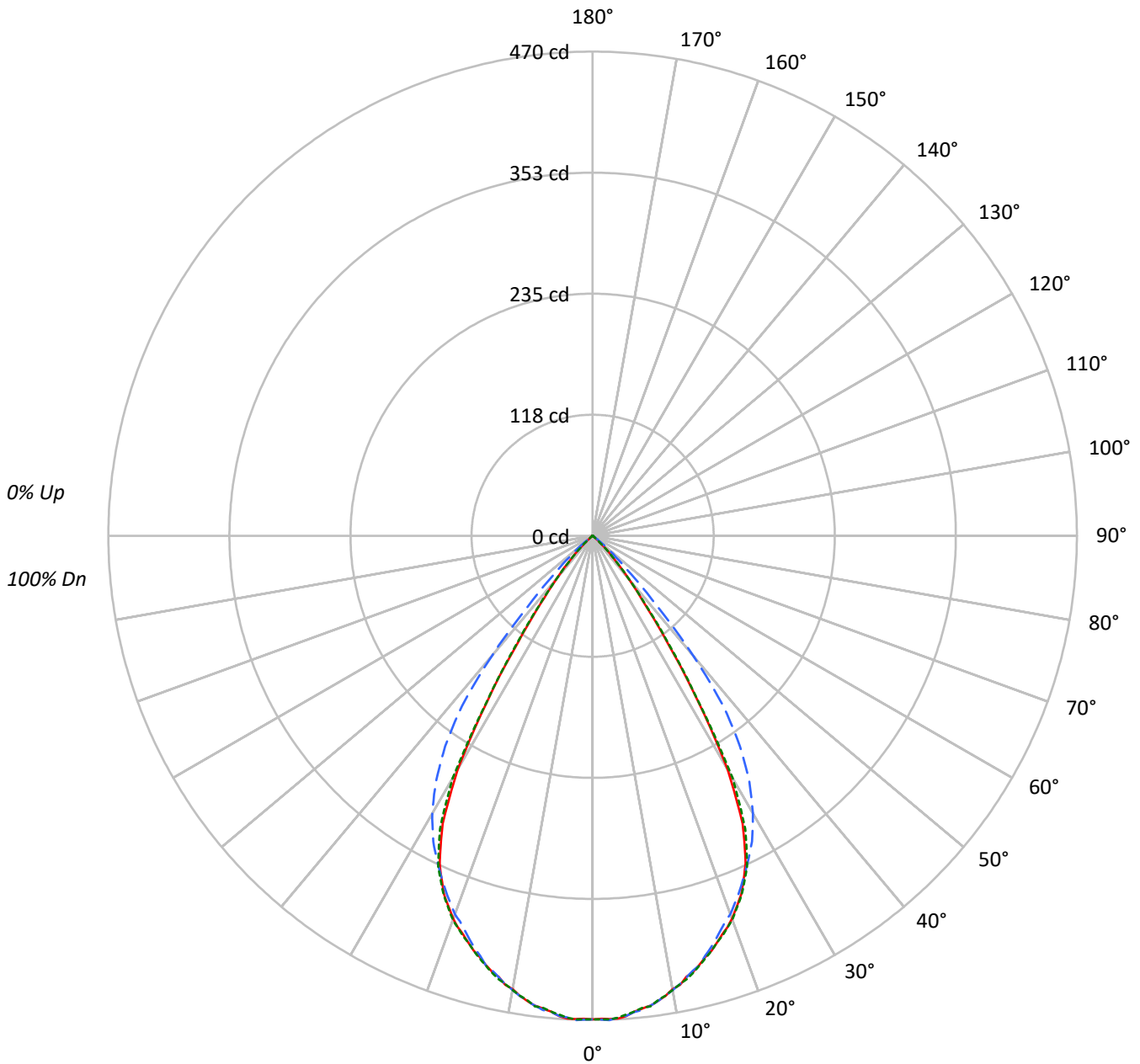
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 466.6 lumens
Efficiency: N/A
Efficacy: 58.3 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-HM60525935-61SQMB

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	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°	20210	20210	20210
5°	20041	20058	20041
10°	19538	19573	19573
15°	18868	18815	18917
20°	18117	17906	18172
25°	16684	16813	16846
30°	13006	15472	13498
35°	6596	13109	6833
40°	3001	8571	3001
45°	1163	3227	1139
50°	181	1025	181
55°	60	203	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: 3227 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	9.4
10°-20°	118.9	25.5
20°-30°	160.2	34.3
30°-40°	112.7	24.1
40°-50°	28.8	6.2
50°-60°	2.0	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°	322.9	69.2
0°-40°	435.6	93.3
0°-60°	466.4	99.9
0°-90°	466.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	466.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	469	469	469	469	469	
5°	464	464	464	464	464	44
15°	423	422	422	423	424	119
25°	351	352	354	355	355	157
35°	126	166	249	170	130	84
45°	19	29	53	29	19	17
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°	469.4	469.4	469.4	469.4	469.4
1°	469.0	469.4	469.8	469.8	469.4
2°	469.4	468.3	470.5	469.4	469.8
3°	469.4	467.1	468.3	469.0	468.6
4°	467.5	466.0	467.1	466.7	466.0
5°	463.7	464.4	464.1	464.4	463.7
6°	461.4	462.2	462.9	461.8	460.6
7°	459.5	459.1	459.5	460.2	460.2
8°	456.1	456.8	456.1	456.4	455.3
9°	452.2	452.2	452.2	453.0	451.9
10°	446.9	448.8	447.7	448.4	447.7
11°	444.2	443.5	443.5	443.9	443.5
12°	437.8	438.5	438.1	438.9	440.0
13°	434.3	434.7	433.2	435.1	435.1
14°	429.0	428.6	429.4	429.0	429.7
15°	423.3	422.5	422.1	423.3	424.4
16°	419.1	417.2	416.0	417.5	419.1
17°	413.0	411.1	409.5	412.6	413.0
18°	406.9	406.1	402.3	406.1	408.0
19°	401.9	399.2	395.8	400.0	402.3
20°	395.4	393.1	390.8	393.1	396.6
22.5°	376.7	374.8	372.9	375.6	377.5
25°	351.2	352.3	353.9	355.0	354.6
27.5°	315.0	325.3	334.8	328.7	320.7
30°	261.6	287.5	311.2	291.7	271.5
32.5°	189.5	233.7	282.9	242.5	191.4
35°	125.5	166.3	249.4	170.4	130.0
37.5°	81.6	111.7	208.2	112.1	85.4
40°	53.4	72.8	152.5	74.4	53.4
42.5°	32.8	46.1	92.7	48.0	32.8
45°	19.1	28.6	53.0	29.0	18.7
47.5°	8.8	15.6	30.1	15.3	9.2
50°	2.7	6.9	15.3	6.9	2.7
52.5°	1.1	1.9	7.2	1.9	1.1
55°	0.8	0.8	2.7	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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