

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: P838287

Luminaire Tested: HCSQ605D010-HM60525935-61SQMB

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-2019
Report Number: P838287
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: HCSQ605D010-HM60525935-61SQMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, MATTE BLACK TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

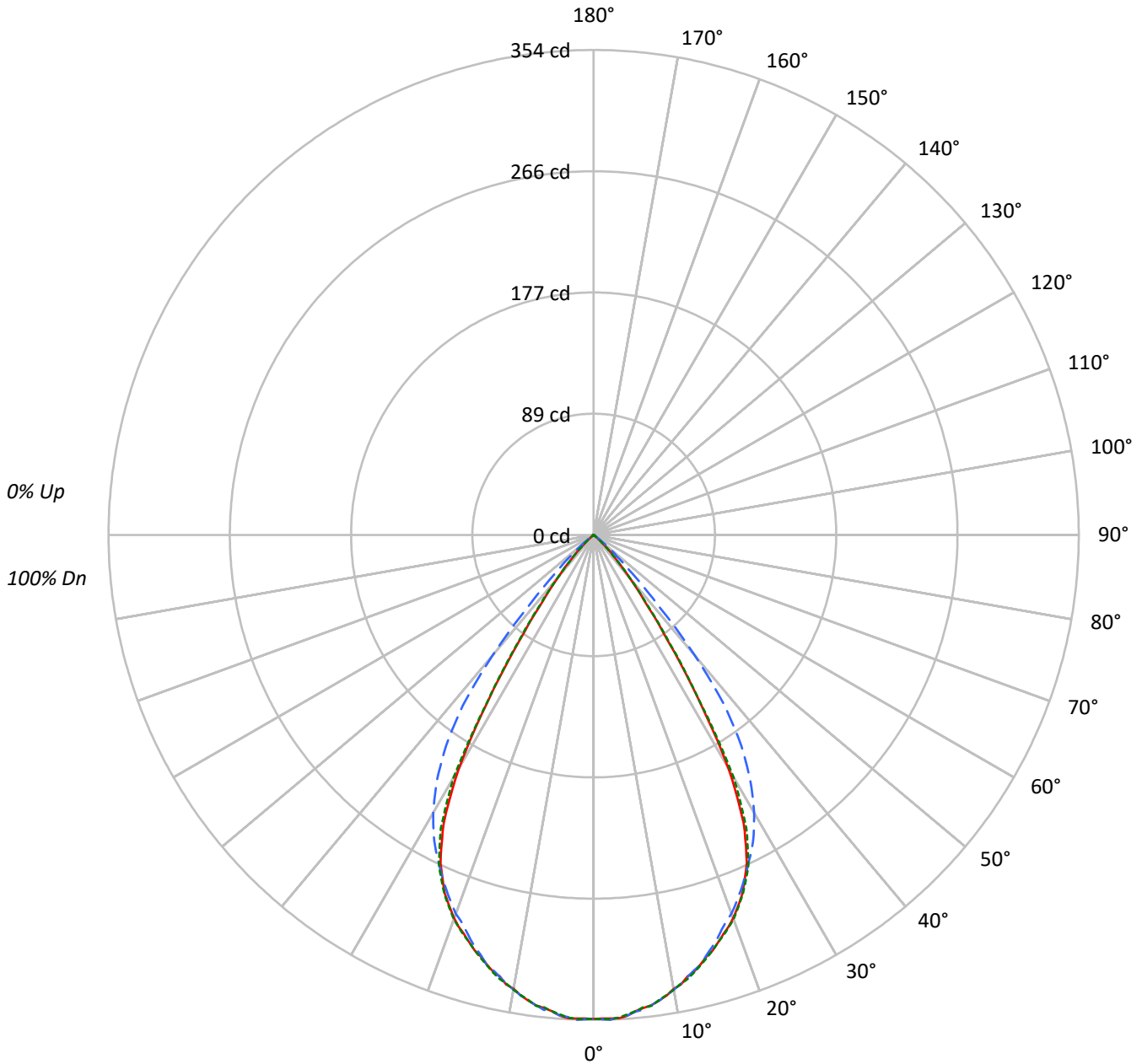
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 351.3 lumens
Efficiency: N/A
Efficacy: 58.5 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): 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					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	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°	15212	15212	15212
5°	15084	15097	15084
10°	14707	14734	14734
15°	14201	14161	14242
20°	13640	13480	13677
25°	12561	12656	12680
30°	9789	11644	10162
35°	4962	9866	5146
40°	2259	6452	2259
45°	877	2430	859
50°	134	770	134
55°	45	150	45
60°	26	26	26
65°	31	0	31
70°	0	0	38
75°	0	0	50
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2430 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	9.4
10°-20°	89.5	25.5
20°-30°	120.6	34.3
30°-40°	84.8	24.1
40°-50°	21.7	6.2
50°-60°	1.5	0.4
60°-70°	0.2	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°	243.1	69.2
0°-40°	327.9	93.3
0°-60°	351.0	99.9
0°-90°	351.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	351.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	353	353	353	353	353	
5°	349	350	349	350	349	33
15°	319	318	318	319	320	90
25°	264	265	266	267	267	118
35°	94	125	188	128	98	64
45°	14	22	40	22	14	13
55°	1	1	2	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°	353.3	353.3	353.3	353.3	353.3
1°	353.0	353.3	353.6	353.6	353.3
2°	353.3	352.5	354.2	353.3	353.6
3°	353.3	351.6	352.5	353.0	352.8
4°	351.9	350.8	351.6	351.3	350.8
5°	349.0	349.6	349.3	349.6	349.0
6°	347.3	347.9	348.5	347.6	346.7
7°	345.9	345.6	345.9	346.4	346.4
8°	343.3	343.9	343.3	343.6	342.7
9°	340.4	340.4	340.4	341.0	340.1
10°	336.4	337.8	337.0	337.5	337.0
11°	334.4	333.8	333.8	334.1	333.8
12°	329.5	330.1	329.8	330.4	331.2
13°	326.9	327.2	326.1	327.5	327.5
14°	322.9	322.6	323.2	322.9	323.5
15°	318.6	318.0	317.7	318.6	319.5
16°	315.4	314.0	313.2	314.3	315.4
17°	310.9	309.4	308.3	310.6	310.9
18°	306.3	305.7	302.8	305.7	307.1
19°	302.5	300.5	297.9	301.1	302.8
20°	297.7	295.9	294.2	295.9	298.5
22.5°	283.6	282.2	280.7	282.7	284.2
25°	264.4	265.2	266.4	267.2	266.9
27.5°	237.1	244.8	252.0	247.4	241.4
30°	196.9	216.4	234.2	219.6	204.4
32.5°	142.7	176.0	213.0	182.6	144.1
35°	94.4	125.1	187.7	128.3	97.9
37.5°	61.4	84.1	156.7	84.4	64.3
40°	40.2	54.8	114.8	56.0	40.2
42.5°	24.7	34.7	69.7	36.2	24.7
45°	14.4	21.5	39.9	21.8	14.1
47.5°	6.6	11.8	22.7	11.5	6.9
50°	2.0	5.2	11.5	5.2	2.0
52.5°	0.9	1.4	5.5	1.4	0.9
55°	0.6	0.6	2.0	0.6	0.6
57.5°	0.6	0.3	0.6	0.6	0.6
60°	0.3	0.3	0.3	0.3	0.3
62.5°	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.0	0.3	0.3
67.5°	0.3	0.0	0.0	0.0	0.3
70°	0.0	0.0	0.0	0.0	0.3
72.5°	0.0	0.0	0.0	0.0	0.3
75°	0.0	0.0	0.0	0.0	0.3



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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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