

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: P838278

Luminaire Tested: HCSQ605D010-HM60525927-61SQMW

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-2019
Report Number: P838278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2309-166-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCSQ605D010-HM60525927-61SQMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

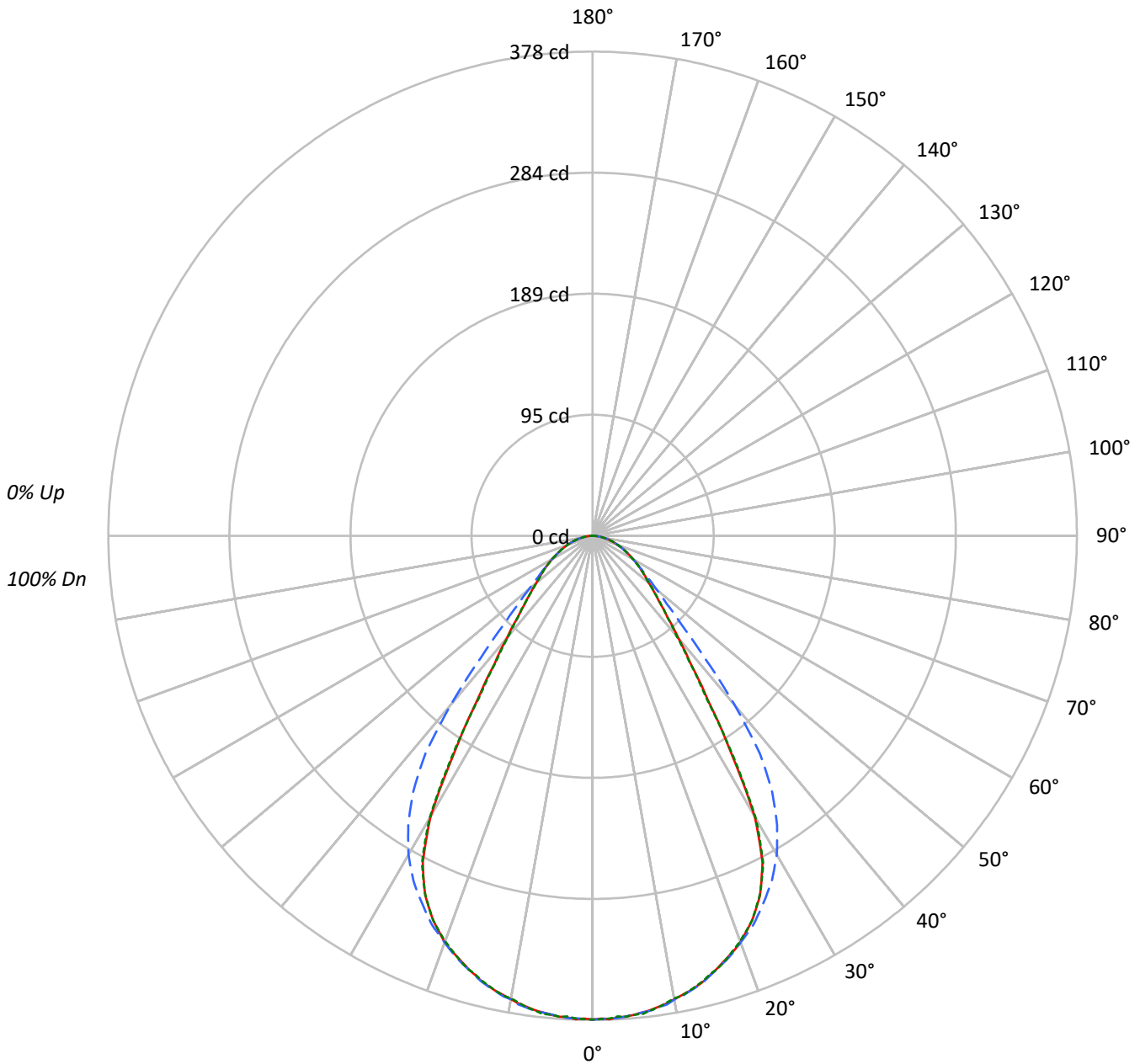
Lumens per Lamp: N/A
Luminaire Lumens: 557.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): 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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89								
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79								
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71								
4	91	81	74	69	89	80	73	68	77	72	67	75	70	67	73	69	66	64								
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58								
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53								
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48								
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44								
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41								
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16262	16262	16262
5°	16221	16208	16221
10°	16063	16071	16036
15°	15824	15833	15797
20°	15468	15478	15432
25°	14694	15007	14680
30°	12583	14288	12663
35°	8268	12846	8142
40°	5845	9684	5739
45°	4530	5961	4567
50°	3852	4347	3818
55°	3468	3566	3468
60°	3134	3134	3134
65°	2873	2853	2853
70°	2618	2618	2656
75°	2462	2379	2412
80°	2157	2157	2157
85°	1828	1828	1828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 5961 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.6	6.4
10°-20°	100.0	18.0
20°-30°	142.5	25.6
30°-40°	121.5	21.8
40°-50°	67.2	12.1
50°-60°	42.3	7.6
60°-70°	28.1	5.0
70°-80°	15.4	2.8
80°-90°	4.4	0.8
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°	278.1	49.9
0°-40°	399.6	71.7
0°-60°	509.1	91.4
0°-90°	557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	378	378	378	378	378	
5°	375	376	375	374	375	36
15°	355	355	355	355	354	100
25°	309	313	316	313	309	140
35°	157	186	244	186	155	102
45°	74	82	98	81	75	59
55°	46	47	48	47	46	42
65°	28	28	28	28	28	28
75°	15	14	14	14	14	16
85°	4	4	4	4	4	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	377.7	377.7	377.7	377.7	377.7
1°	376.9	377.4	377.4	377.1	377.4
2°	377.7	376.9	376.9	376.9	377.1
3°	376.6	377.1	377.1	376.3	375.8
4°	376.3	376.1	376.1	376.9	376.3
5°	375.3	375.8	375.0	374.5	375.3
6°	374.2	374.5	374.2	374.5	375.3
7°	372.9	373.7	373.4	373.2	373.2
8°	371.3	372.4	371.9	371.9	371.6
9°	369.8	370.0	370.5	370.5	369.0
10°	367.4	368.2	367.6	367.9	366.8
11°	365.3	366.3	366.1	365.5	365.8
12°	363.4	363.9	363.7	362.9	363.2
13°	361.0	361.6	361.3	361.3	360.5
14°	358.4	357.9	358.7	358.1	357.9
15°	355.0	355.0	355.2	355.0	354.4
16°	351.8	352.1	352.1	351.8	352.1
17°	348.1	349.2	348.9	348.4	348.6
18°	344.7	345.5	345.7	345.5	344.7
19°	341.5	342.0	341.8	340.7	340.7
20°	337.6	337.8	337.8	337.3	336.8
22.5°	325.1	327.0	328.3	327.3	325.1
25°	309.3	313.0	315.9	312.7	309.0
27.5°	287.1	294.5	303.2	295.3	288.5
30°	253.1	270.0	287.4	271.6	254.7
32.5°	201.4	234.6	267.9	237.8	204.5
35°	157.3	185.5	244.4	185.8	154.9
37.5°	125.6	145.7	214.3	144.4	124.3
40°	104.0	117.4	172.3	116.9	102.1
42.5°	86.8	97.1	129.1	96.1	86.8
45°	74.4	81.6	97.9	81.0	75.0
47.5°	65.2	69.7	78.4	69.4	65.2
50°	57.5	60.2	64.9	59.9	57.0
52.5°	51.5	53.0	54.9	52.5	50.9
55°	46.2	47.0	47.5	46.7	46.2
57.5°	41.2	41.7	41.4	41.2	40.9
60°	36.4	36.7	36.4	36.7	36.4
62.5°	32.2	32.5	31.9	32.2	31.9
65°	28.2	28.5	28.0	28.2	28.0
67.5°	24.5	24.5	24.5	24.5	24.3
70°	20.8	21.1	20.8	21.1	21.1
72.5°	17.7	17.7	17.4	17.7	17.7
75°	14.8	14.5	14.3	14.5	14.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
82.5°	6.3	6.3	6.1	6.3	6.3
85°	3.7	3.7	3.7	4.0	3.7
87.5°	1.8	1.6	1.6	1.8	1.8
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°	11.6	11.6	11.3	11.6	11.6
80°	8.7	9.0	8.7	9.0	8.7

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Scaled Data Report



(END OF REPORT)