

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: P838267

Luminaire Tested: HCSQ605D010-HM60525835-61SQMB

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-2019
Report Number: P838267
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-HM60525835-61SQMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, MATTE BLACK TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: -

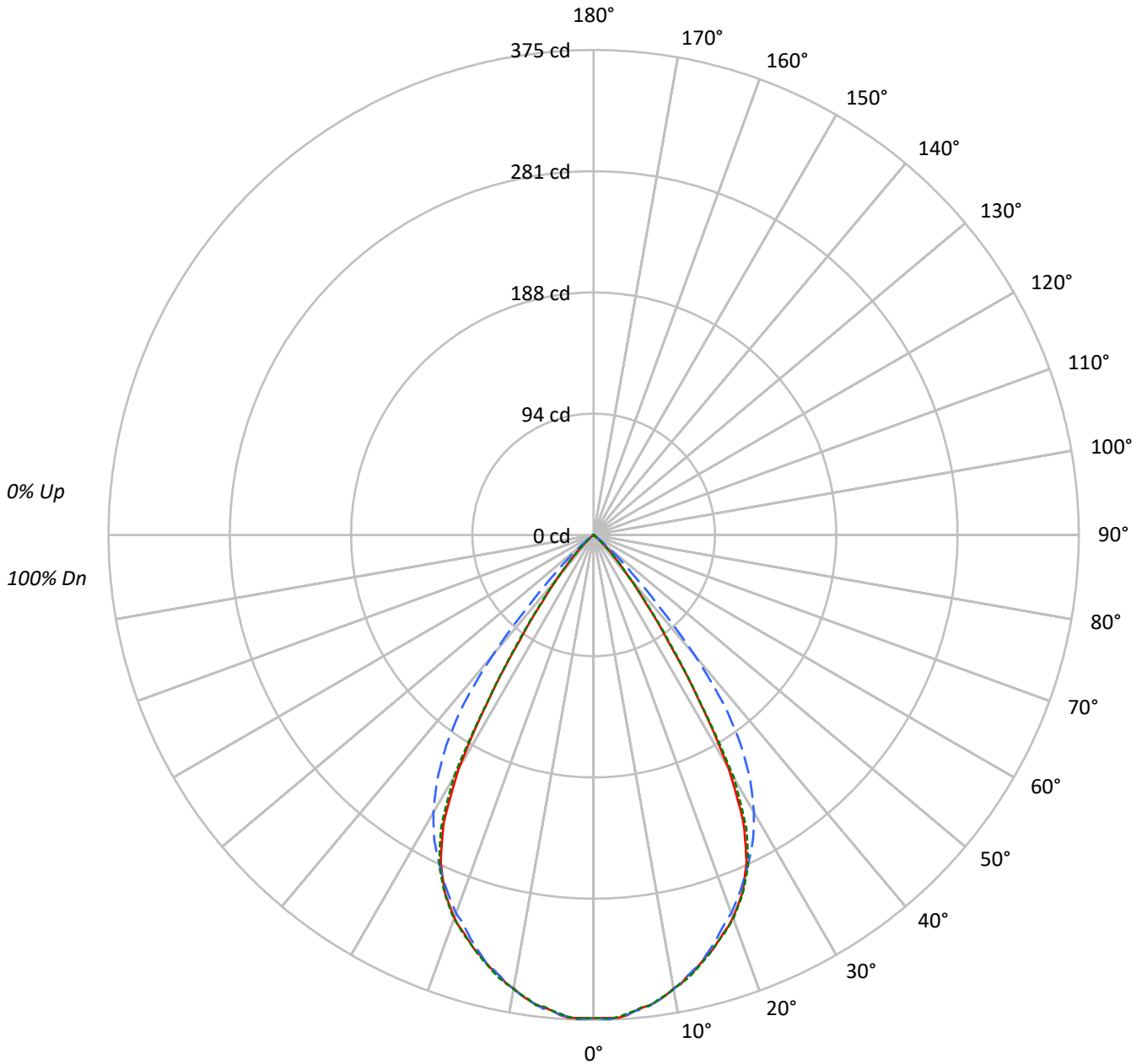
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 371.6 lumens
Efficiency: N/A
Efficacy: 61.9 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	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°	16094	16094	16094
5°	15957	15970	15957
10°	15560	15586	15586
15°	15022	14981	15062
20°	14428	14259	14470
25°	13283	13387	13416
30°	10356	12320	10749
35°	5251	10439	5440
40°	2389	6829	2389
45°	926	2570	907
50°	141	810	141
55°	45	158	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: 2570 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	9.4
10°-20°	94.6	25.5
20°-30°	127.6	34.3
30°-40°	89.7	24.1
40°-50°	22.9	6.2
50°-60°	1.6	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°	257.1	69.2
0°-40°	346.9	93.4
0°-60°	371.3	99.9
0°-90°	371.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	371.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	374	374	374	374	374	
5°	369	370	370	370	369	35
15°	337	336	336	337	338	95
25°	280	281	282	283	282	125
35°	100	132	199	136	104	67
45°	15	23	42	23	15	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°	373.8	373.8	373.8	373.8	373.8
1°	373.5	373.8	374.1	374.1	373.8
2°	373.8	372.9	374.7	373.8	374.1
3°	373.8	372.0	372.9	373.5	373.2
4°	372.3	371.0	372.0	371.7	371.0
5°	369.2	369.8	369.5	369.8	369.2
6°	367.4	368.0	368.6	367.7	366.8
7°	365.9	365.6	365.9	366.5	366.5
8°	363.1	363.8	363.1	363.5	362.5
9°	360.1	360.1	360.1	360.7	359.8
10°	355.9	357.4	356.5	357.1	356.5
11°	353.7	353.1	353.1	353.4	353.1
12°	348.6	349.2	348.9	349.5	350.4
13°	345.8	346.1	344.9	346.4	346.4
14°	341.6	341.3	341.9	341.6	342.2
15°	337.0	336.4	336.1	337.0	337.9
16°	333.7	332.2	331.3	332.5	333.7
17°	328.8	327.3	326.1	328.5	328.8
18°	324.0	323.4	320.3	323.4	324.9
19°	320.0	317.9	315.2	318.5	320.3
20°	314.9	313.0	311.2	313.0	315.8
22.5°	300.0	298.5	297.0	299.1	300.6
25°	279.6	280.6	281.8	282.7	282.4
27.5°	250.8	259.0	266.6	261.7	255.4
30°	208.3	228.9	247.8	232.3	216.2
32.5°	150.9	186.1	225.3	193.1	152.4
35°	99.9	132.4	198.6	135.7	103.5
37.5°	65.0	89.0	165.8	89.3	68.0
40°	42.5	58.0	121.5	59.2	42.5
42.5°	26.1	36.7	73.8	38.3	26.1
45°	15.2	22.8	42.2	23.1	14.9
47.5°	7.0	12.4	24.0	12.1	7.3
50°	2.1	5.5	12.1	5.5	2.1
52.5°	0.9	1.5	5.8	1.5	0.9
55°	0.6	0.6	2.1	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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