

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: P838262

Luminaire Tested: HCSQ605D010-HM60525830-61SQMB

Issue Date: 5/21/2024

Test Information

Test Method: LM-79-2019
Report Number: P838262
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-HM60525830-61SQMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, MATTE BLACK TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: -

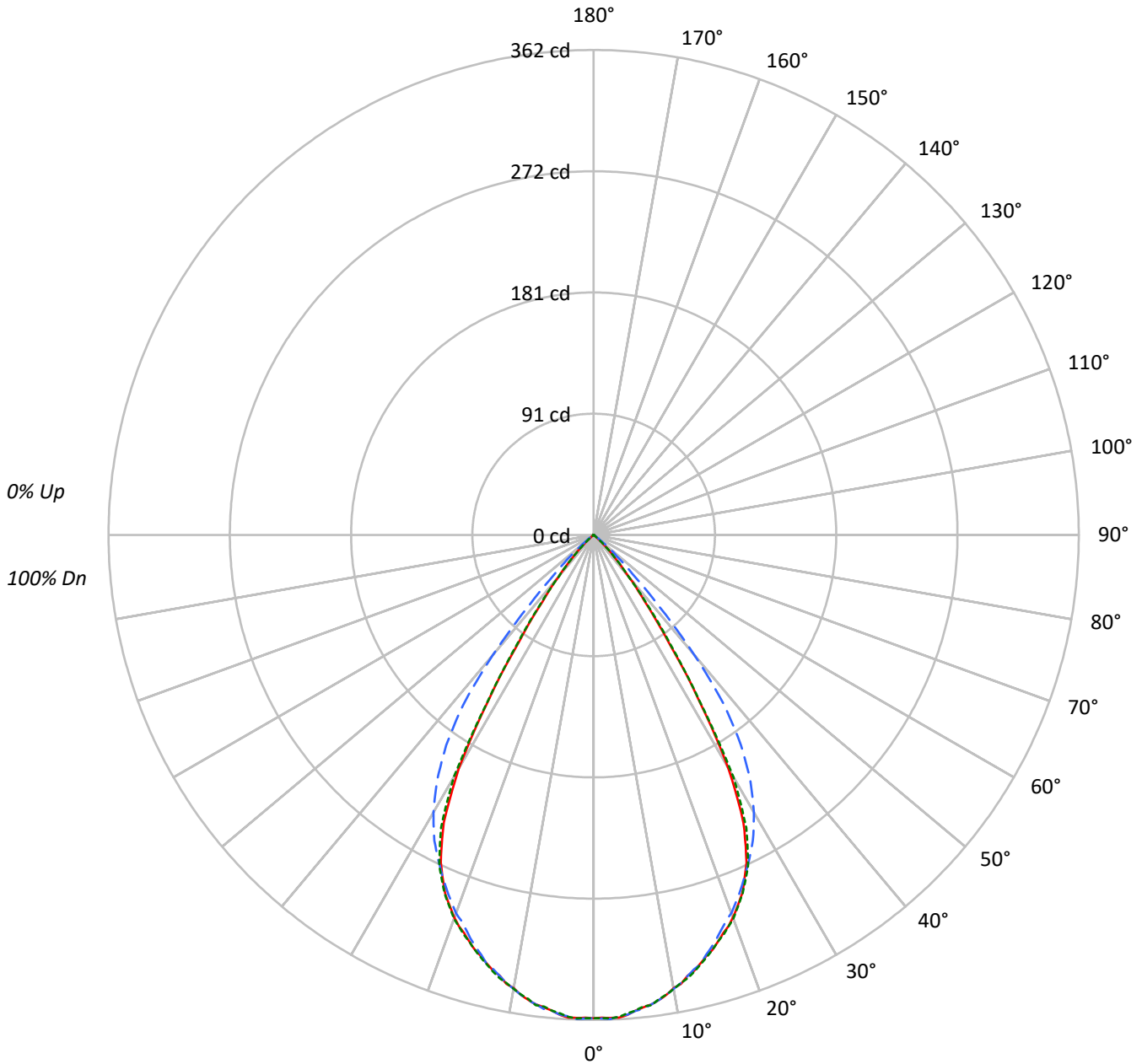
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 358.7 lumens
Efficiency: N/A
Efficacy: 59.8 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°	15534	15534	15534
5°	15404	15417	15404
10°	15018	15044	15044
15°	14500	14460	14540
20°	13924	13764	13966
25°	12822	12922	12950
30°	9993	11887	10376
35°	5067	10076	5251
40°	2304	6587	2304
45°	895	2478	877
50°	141	784	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: 2478 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	9.4
10°-20°	91.4	25.5
20°-30°	123.2	34.3
30°-40°	86.6	24.1
40°-50°	22.1	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°	248.2	69.2
0°-40°	334.8	93.3
0°-60°	358.4	99.9
0°-90°	358.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	358.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	361	361	361	361	361	
5°	356	357	357	357	356	34
15°	325	325	324	325	326	92
25°	270	271	272	273	273	121
35°	96	128	192	131	100	65
45°	15	22	41	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°	360.8	360.8	360.8	360.8	360.8
1°	360.5	360.8	361.1	361.1	360.8
2°	360.8	359.9	361.6	360.8	361.1
3°	360.8	359.0	359.9	360.5	360.2
4°	359.3	358.1	359.0	358.7	358.1
5°	356.4	357.0	356.7	357.0	356.4
6°	354.6	355.2	355.8	354.9	354.0
7°	353.1	352.9	353.1	353.7	353.7
8°	350.5	351.1	350.5	350.8	349.9
9°	347.6	347.6	347.6	348.2	347.3
10°	343.5	344.9	344.1	344.7	344.1
11°	341.4	340.8	340.8	341.1	340.8
12°	336.4	337.0	336.7	337.3	338.2
13°	333.8	334.1	332.9	334.4	334.4
14°	329.7	329.4	330.0	329.7	330.3
15°	325.3	324.7	324.4	325.3	326.2
16°	322.1	320.6	319.7	320.9	322.1
17°	317.4	315.9	314.8	317.1	317.4
18°	312.7	312.1	309.2	312.1	313.6
19°	308.9	306.8	304.2	307.4	309.2
20°	303.9	302.2	300.4	302.2	304.8
22.5°	289.6	288.1	286.6	288.7	290.1
25°	269.9	270.8	272.0	272.8	272.6
27.5°	242.1	250.0	257.3	252.6	246.5
30°	201.0	221.0	239.1	224.2	208.7
32.5°	145.7	179.7	217.5	186.4	147.1
35°	96.4	127.8	191.7	131.0	99.9
37.5°	62.7	85.9	160.0	86.2	65.6
40°	41.0	56.0	117.2	57.1	41.0
42.5°	25.2	35.5	71.2	36.9	25.2
45°	14.7	22.0	40.7	22.3	14.4
47.5°	6.7	12.0	23.2	11.7	7.0
50°	2.1	5.3	11.7	5.3	2.1
52.5°	0.9	1.5	5.6	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



(END OF REPORT)