

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: P838277

Luminaire Tested: HCSQ605D010-HM60525927-61SQMB

Issue Date: 5/21/2024

Test Information

Test Method: LM-79-2019
Report Number: P838277
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-HM60525927-61SQMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, MATTE BLACK TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

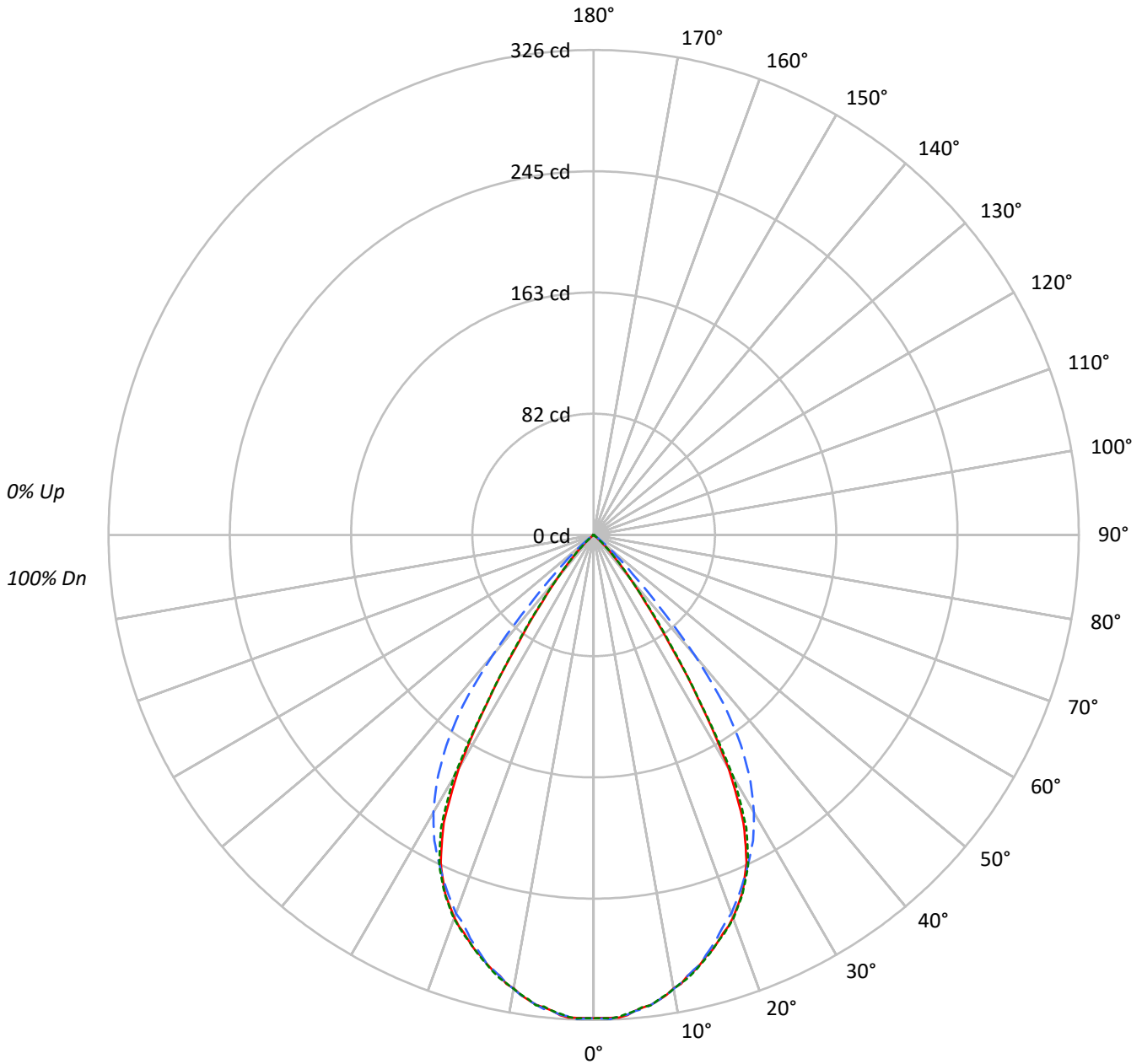
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 323.0 lumens
Efficiency: N/A
Efficacy: 53.8 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°	13989	13989	13989
5°	13874	13882	13874
10°	13527	13549	13549
15°	13060	13025	13096
20°	12541	12399	12577
25°	11549	11639	11663
30°	9004	10709	9342
35°	4562	9072	4731
40°	2080	5935	2080
45°	804	2235	785
50°	121	710	121
55°	38	135	38
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: 2235 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.3	9.4
10°-20°	82.3	25.5
20°-30°	110.9	34.3
30°-40°	78.0	24.1
40°-50°	19.9	6.2
50°-60°	1.4	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°	223.5	69.2
0°-40°	301.5	93.3
0°-60°	322.8	99.9
0°-90°	323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	325	325	325	325	325	
5°	321	322	321	322	321	30
15°	293	292	292	293	294	82
25°	243	244	245	246	246	109
35°	87	115	173	118	90	58
45°	13	20	37	20	13	12
55°	0	0	2	0	0	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°	324.9	324.9	324.9	324.9	324.9
1°	324.7	324.9	325.2	325.2	324.9
2°	324.9	324.1	325.7	324.9	325.2
3°	324.9	323.3	324.1	324.7	324.4
4°	323.6	322.6	323.3	323.1	322.6
5°	321.0	321.5	321.2	321.5	321.0
6°	319.4	319.9	320.4	319.7	318.9
7°	318.1	317.8	318.1	318.6	318.6
8°	315.7	316.2	315.7	316.0	315.2
9°	313.1	313.1	313.1	313.6	312.8
10°	309.4	310.7	309.9	310.4	309.9
11°	307.5	307.0	307.0	307.2	307.0
12°	303.0	303.6	303.3	303.8	304.6
13°	300.6	300.9	299.9	301.2	301.2
14°	297.0	296.7	297.2	297.0	297.5
15°	293.0	292.5	292.2	293.0	293.8
16°	290.1	288.8	288.0	289.0	290.1
17°	285.9	284.5	283.5	285.6	285.9
18°	281.6	281.1	278.5	281.1	282.4
19°	278.2	276.4	274.0	276.9	278.5
20°	273.7	272.1	270.6	272.1	274.5
22.5°	260.8	259.5	258.2	260.0	261.3
25°	243.1	243.9	245.0	245.7	245.5
27.5°	218.0	225.2	231.8	227.5	222.0
30°	181.1	199.0	215.4	201.9	187.9
32.5°	131.2	161.8	195.9	167.9	132.5
35°	86.8	115.1	172.6	118.0	90.0
37.5°	56.5	77.3	144.1	77.6	59.1
40°	37.0	50.4	105.6	51.5	37.0
42.5°	22.7	31.9	64.1	33.3	22.7
45°	13.2	19.8	36.7	20.1	12.9
47.5°	6.1	10.8	20.9	10.6	6.3
50°	1.8	4.8	10.6	4.8	1.8
52.5°	0.8	1.3	5.0	1.3	0.8
55°	0.5	0.5	1.8	0.5	0.5
57.5°	0.5	0.3	0.5	0.5	0.5
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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