

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: P838285

Luminaire Tested: HCSQ605D010-HM60525935-61SQH

Issue Date: 5/21/2024

Test Information

Test Method: LM-79-2019
Report Number: P838285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2309-166-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCSQ605D010-HM60525935-61SQH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

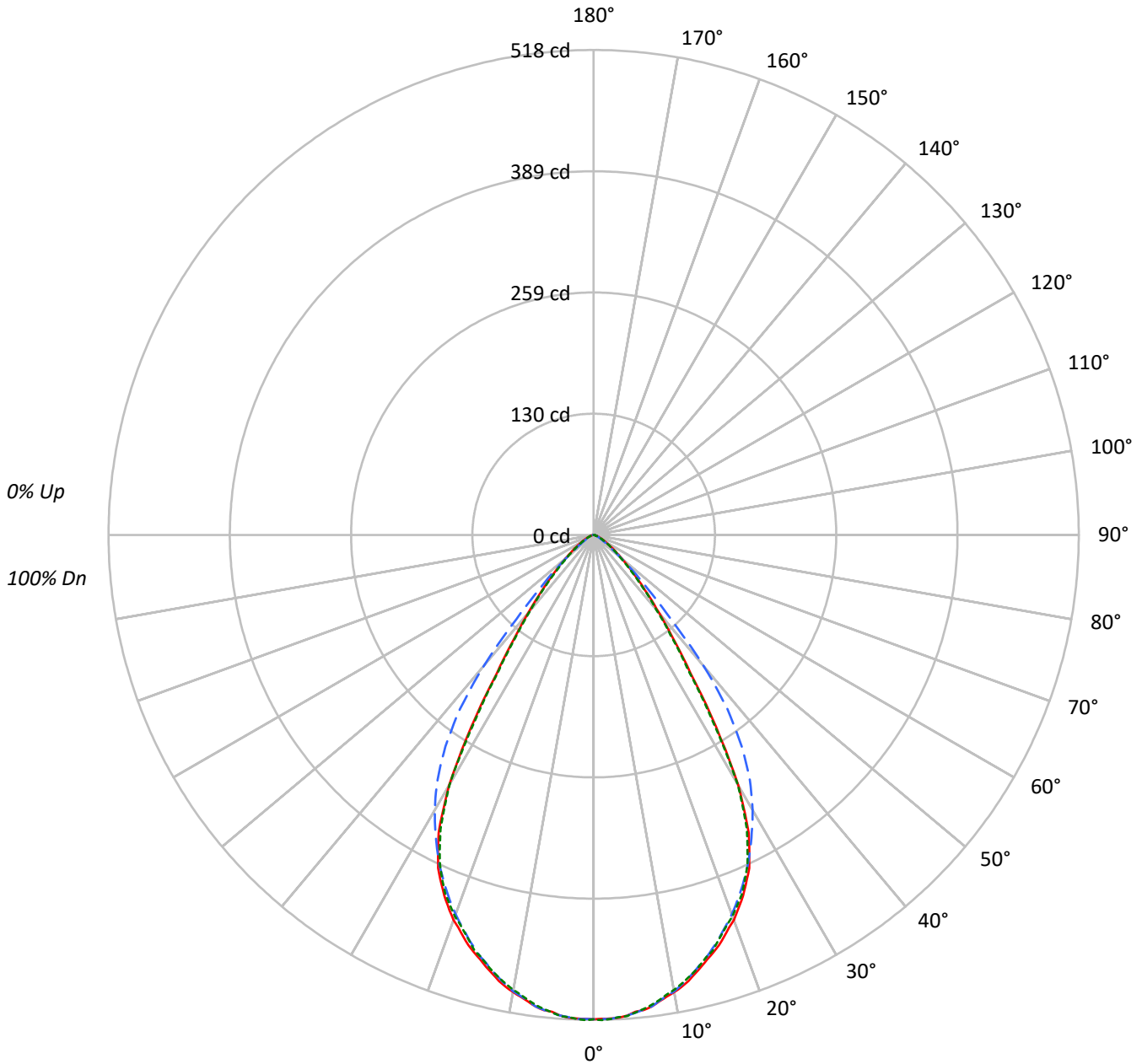
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 582.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.01 / 1.04
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									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			100																
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92																
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85																
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78																
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71			71																
5	90	80	74	69	88	79	74	69	78	72	68	76	71	68	74	70	67	66			66																
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61			61																
7	80	70	63	59	78	69	63	59	68	62	58	67	62	58	65	61	58	56			56																
8	76	65	59	54	74	65	59	54	64	58	54	63	57	54	62	57	54	52			52																
9	72	61	55	51	70	61	55	50	60	54	50	59	54	50	58	53	50	48			48																
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			45																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22277	22277	22277
5°	22103	22142	22129
10°	21681	21633	21580
15°	20914	20798	20790
20°	20055	19762	19853
25°	18665	18499	18461
30°	15338	16879	15293
35°	9472	14496	9246
40°	6081	10274	5873
45°	3964	4981	3775
50°	2632	2478	2458
55°	1787	1291	1659
60°	1214	792	1111
65°	846	581	764
70°	541	428	504
75°	383	333	333
80°	273	223	223
85°	148	296	148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 4981 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	8.3
10°-20°	131.2	22.5
20°-30°	177.0	30.4
30°-40°	138.2	23.7
40°-50°	57.9	9.9
50°-60°	19.6	3.4
60°-70°	7.0	1.2
70°-80°	2.3	0.4
80°-90°	0.5	0.1
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°	356.5	61.3
0°-40°	494.7	85.0
0°-60°	572.2	98.3
0°-90°	582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	517	517	517	517	517	
5°	511	512	512	511	512	48
15°	469	468	467	466	466	132
25°	393	391	389	389	389	177
35°	180	212	276	211	176	119
45°	65	70	82	67	62	52
55°	24	22	17	21	22	22
65°	8	7	6	7	8	9
75°	2	2	2	2	2	3
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	517.4	517.4	517.4	517.4	517.4
1°	516.9	517.7	517.1	517.4	518.3
2°	516.9	516.9	517.4	517.1	517.4
3°	516.3	516.3	515.7	515.7	515.7
4°	514.6	514.6	514.6	514.0	515.1
5°	511.4	512.0	512.3	511.4	512.0
6°	510.3	510.5	510.0	509.7	509.1
7°	507.7	506.8	507.7	505.7	506.0
8°	503.4	503.4	502.8	502.2	501.7
9°	499.4	499.4	498.8	497.9	497.3
10°	495.9	495.1	494.8	493.9	493.6
11°	491.9	490.2	489.9	489.0	489.0
12°	487.0	486.2	484.1	483.9	483.9
13°	481.0	480.1	478.7	477.5	478.7
14°	475.2	474.7	472.1	473.0	472.7
15°	469.2	468.1	466.6	466.1	466.4
16°	463.8	461.8	459.8	460.0	461.8
17°	458.0	455.2	453.2	452.9	453.7
18°	450.9	448.6	445.4	446.5	446.5
19°	443.7	440.5	438.5	438.2	439.4
20°	437.7	432.8	431.3	431.1	433.3
22.5°	417.0	412.1	411.0	412.1	414.4
25°	392.9	391.2	389.4	389.4	388.6
27.5°	358.7	362.7	364.8	360.7	354.1
30°	308.5	325.4	339.5	323.4	307.6
32.5°	243.1	278.1	310.5	277.2	237.3
35°	180.2	211.5	275.8	211.2	175.9
37.5°	138.9	159.0	234.5	156.4	134.9
40°	108.2	120.0	182.8	118.5	104.5
42.5°	84.1	91.5	121.7	89.8	81.2
45°	65.1	69.7	81.8	66.6	62.0
47.5°	50.8	52.8	56.0	50.5	47.9
50°	39.3	39.3	37.0	37.9	36.7
52.5°	30.4	29.3	25.0	27.6	28.1
55°	23.8	21.8	17.2	20.7	22.1
57.5°	18.1	16.1	12.3	15.2	16.6
60°	14.1	12.1	9.2	11.5	12.9
62.5°	10.9	9.2	7.2	8.6	9.8
65°	8.3	6.9	5.7	6.6	7.5
67.5°	6.3	5.2	4.3	4.9	5.7
70°	4.3	4.0	3.4	3.7	4.0
72.5°	3.2	2.9	2.6	2.6	2.9
75°	2.3	2.0	2.0	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.3	0.3	0.6	0.3	0.3
87.5°	0.3	0.3	0.3	0.3	0.3
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°	1.4	1.4	1.4	1.4	1.4
80°	1.1	1.1	0.9	0.9	0.9

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Scaled Data Report



(END OF REPORT)