

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: P838295

Luminaire Tested: HCSQ607D010-HM60525827-61SQH

Issue Date: 5/21/2024

Test Information

Test Method: LM-79-2019
Report Number: P838295
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: HCSQ607D010-HM60525827-61SQH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: -

Summary

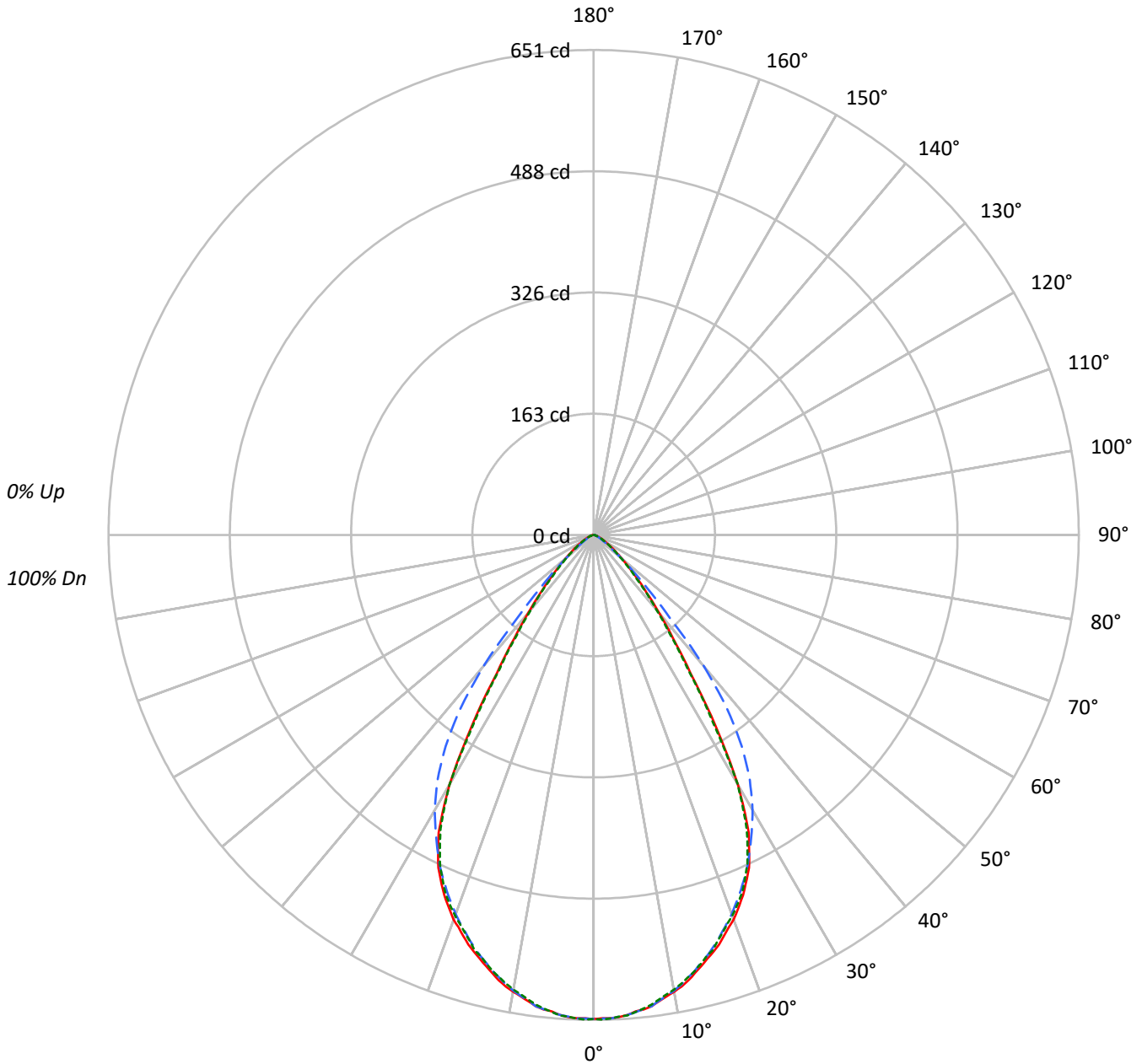
Lumens per Lamp: N/A
Luminaire Lumens: 730.7 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.01 / 1.04
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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	79	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°	27973	27973	27973
5°	27752	27799	27786
10°	27224	27159	27098
15°	26263	26116	26103
20°	25177	24816	24930
25°	23435	23231	23179
30°	19260	21194	19205
35°	11895	18202	11611
40°	7638	12899	7374
45°	4981	6253	4737
50°	3309	3115	3088
55°	2244	1621	2079
60°	1524	990	1395
65°	1070	734	958
70°	680	541	629
75°	482	416	416
80°	347	273	273
85°	198	346	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6253 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	8.3
10°-20°	164.7	22.5
20°-30°	222.3	30.4
30°-40°	173.5	23.7
40°-50°	72.7	9.9
50°-60°	24.6	3.4
60°-70°	8.8	1.2
70°-80°	2.8	0.4
80°-90°	0.6	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°	447.7	61.3
0°-40°	621.2	85.0
0°-60°	718.5	98.3
0°-90°	730.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	730.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	642	643	643	642	643	61
15°	589	588	586	585	586	166
25°	493	491	489	489	488	222
35°	226	266	346	265	221	149
45°	82	88	103	84	78	66
55°	30	27	22	26	28	28
65°	10	9	7	8	9	11
75°	3	2	2	2	2	3
85°	0	0	1	0	0	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	649.7	649.7	649.7	649.7	649.7
1°	649.0	650.1	649.3	649.7	650.8
2°	649.0	649.0	649.7	649.3	649.7
3°	648.3	648.3	647.5	647.5	647.5
4°	646.1	646.1	646.1	645.4	646.8
5°	642.1	642.9	643.2	642.1	642.9
6°	640.7	641.1	640.3	640.0	639.3
7°	637.5	636.4	637.5	634.9	635.3
8°	632.0	632.0	631.3	630.6	629.9
9°	627.0	627.0	626.3	625.2	624.5
10°	622.7	621.6	621.2	620.2	619.8
11°	617.6	615.5	615.1	614.0	614.0
12°	611.5	610.4	607.9	607.5	607.5
13°	603.9	602.9	601.1	599.6	601.1
14°	596.7	596.0	592.8	593.8	593.5
15°	589.2	587.7	585.9	585.2	585.6
16°	582.3	579.8	577.3	577.6	579.8
17°	575.1	571.5	569.0	568.6	569.7
18°	566.1	563.2	559.3	560.7	560.7
19°	557.1	553.1	550.6	550.2	551.7
20°	549.5	543.4	541.6	541.2	544.1
22.5°	523.6	517.5	516.0	517.5	520.3
25°	493.3	491.2	489.0	489.0	487.9
27.5°	450.4	455.5	458.0	453.0	444.7
30°	387.4	408.6	426.3	406.1	386.3
32.5°	305.2	349.2	389.9	348.1	298.0
35°	226.3	265.6	346.3	265.2	220.9
37.5°	174.4	199.6	294.4	196.4	169.4
40°	135.9	150.6	229.5	148.8	131.2
42.5°	105.6	115.0	152.8	112.8	102.0
45°	81.8	87.6	102.7	83.6	77.8
47.5°	63.8	66.3	70.3	63.4	60.2
50°	49.4	49.4	46.5	47.6	46.1
52.5°	38.2	36.8	31.4	34.6	35.3
55°	29.9	27.4	21.6	25.9	27.7
57.5°	22.7	20.2	15.5	19.1	20.9
60°	17.7	15.1	11.5	14.4	16.2
62.5°	13.7	11.5	9.0	10.8	12.3
65°	10.5	8.6	7.2	8.3	9.4
67.5°	7.9	6.5	5.4	6.1	7.2
70°	5.4	5.0	4.3	4.7	5.0
72.5°	4.0	3.6	3.2	3.2	3.6
75°	2.9	2.5	2.5	2.5	2.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.4	0.4	0.7	0.4	0.4
87.5°	0.4	0.4	0.4	0.4	0.4
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°	1.8	1.8	1.8	1.8	1.8
80°	1.4	1.4	1.1	1.1	1.1

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Scaled Data Report



(END OF REPORT)