

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: P838274

Luminaire Tested: HCSQ605D010-HM60525927-61SQC

Issue Date: 5/21/2024

Test Information

Test Method: LM-79-2019
Report Number: P838274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2309-166-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCSQ605D010-HM60525927-61SQC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

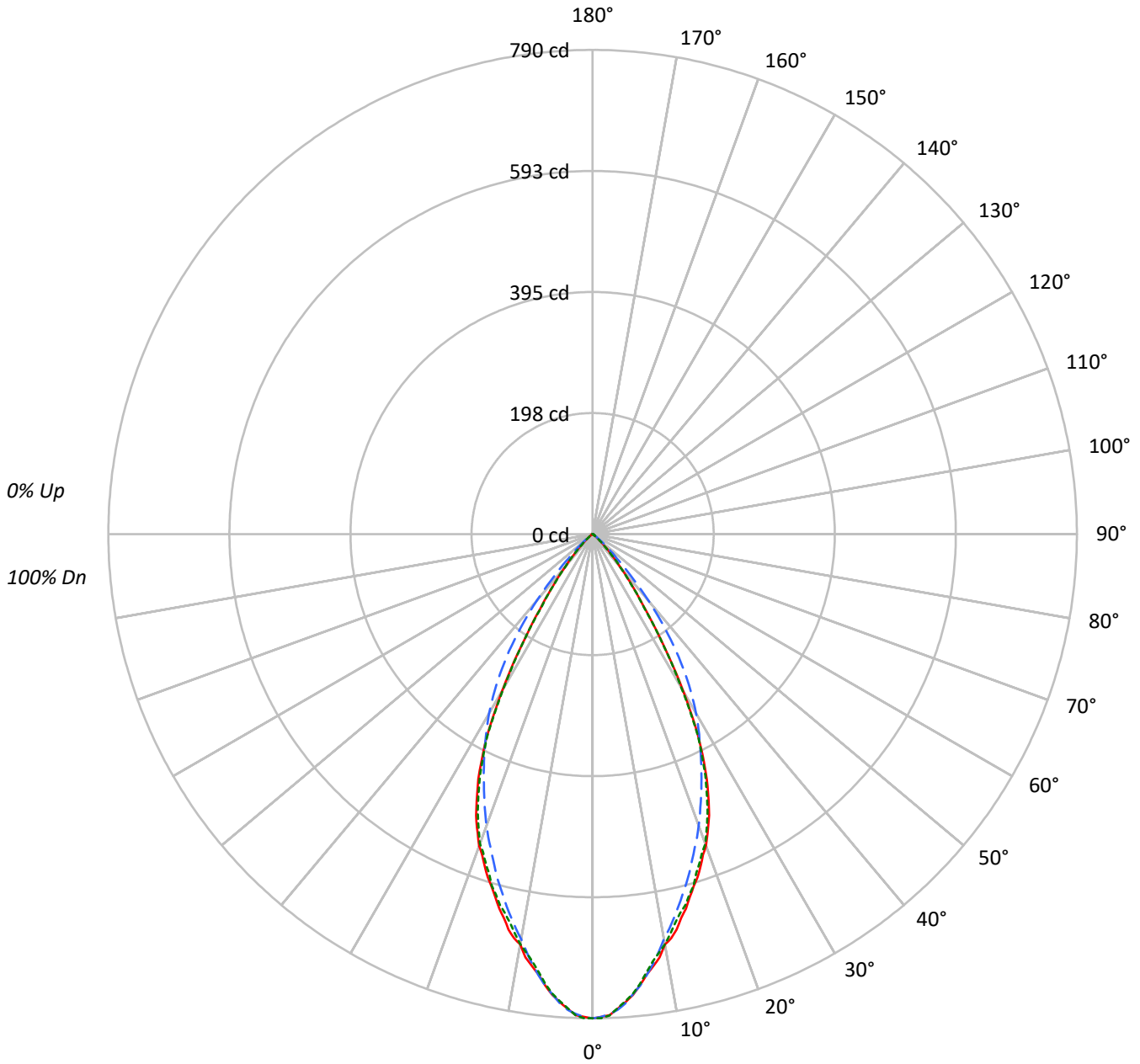
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 591.9 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.81 / 0.85
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																			
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76																			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71																			
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66																			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	56	55																			
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34023	34023	34023
5°	32636	32579	32532
10°	29725	29323	29703
15°	27320	26317	27155
20°	24793	23194	24623
25°	20950	19939	20665
30°	14671	16784	14423
35°	7879	12872	7727
40°	3901	7964	3873
45°	1705	3361	1668
50°	549	1219	549
55°	278	398	255
60°	181	181	181
65°	132	132	132
70°	101	101	101
75°	83	83	83
80°	74	74	74
85°	148	148	148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 3361 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	11.7
10°-20°	167.6	28.3
20°-30°	193.6	32.7
30°-40°	120.9	20.4
40°-50°	33.6	5.7
50°-60°	4.7	0.8
60°-70°	1.4	0.2
70°-80°	0.6	0.1
80°-90°	0.3	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°	430.5	72.7
0°-40°	551.4	93.2
0°-60°	589.7	99.6
0°-90°	591.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	591.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	790	790	790	790	790	
5°	755	753	754	753	753	70
15°	613	601	590	600	609	172
25°	441	428	420	428	435	197
35°	150	185	245	183	147	100
45°	28	36	55	35	27	24
55°	4	4	5	4	3	4
65°	1	1	1	1	1	1
75°	0	0	0	0	0	1
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°	790.2	790.2	790.2	790.2	790.2
1°	787.9	787.9	787.9	790.0	790.0
2°	785.5	784.9	783.6	785.2	786.0
3°	775.7	776.8	777.3	776.5	774.7
4°	765.7	764.6	767.5	765.7	764.1
5°	755.1	753.0	753.8	752.7	752.7
6°	740.3	743.0	740.9	739.0	738.0
7°	724.2	726.4	725.0	722.4	720.5
8°	711.6	710.3	708.1	707.6	704.4
9°	699.4	694.7	689.9	690.7	691.5
10°	679.9	680.4	670.7	678.1	679.4
11°	671.7	668.8	655.9	662.0	664.1
12°	659.8	650.6	639.5	644.5	648.5
13°	642.7	633.2	623.2	630.8	634.8
14°	629.8	618.9	606.3	616.0	624.2
15°	612.9	601.2	590.4	599.7	609.2
16°	598.1	584.6	573.8	582.8	597.0
17°	585.1	568.5	555.3	564.8	578.5
18°	570.1	550.8	538.7	548.7	564.3
19°	553.5	533.9	523.1	531.3	549.3
20°	541.1	519.2	506.2	514.1	537.4
22.5°	496.7	473.8	461.9	471.4	489.9
25°	441.0	428.1	419.7	427.8	435.0
27.5°	375.1	375.1	378.0	374.5	372.4
30°	295.1	316.5	337.6	315.4	290.1
32.5°	215.4	249.7	292.2	254.2	215.1
35°	149.9	185.0	244.9	182.9	147.0
37.5°	104.3	127.5	193.2	128.8	102.9
40°	69.4	85.5	141.7	87.1	68.9
42.5°	45.4	56.5	91.6	56.7	44.3
45°	28.0	35.6	55.2	35.4	27.4
47.5°	16.4	21.1	32.2	21.4	16.1
50°	8.2	12.4	18.2	12.1	8.2
52.5°	4.8	6.6	10.0	6.3	4.8
55°	3.7	3.7	5.3	3.7	3.4
57.5°	2.9	2.9	2.9	2.9	2.6
60°	2.1	2.4	2.1	2.1	2.1
62.5°	1.8	1.8	1.6	1.8	1.6
65°	1.3	1.3	1.3	1.3	1.3
67.5°	1.1	1.1	1.1	1.1	1.1
70°	0.8	0.8	0.8	0.8	0.8
72.5°	0.5	0.8	0.5	0.8	0.8
75°	0.5	0.5	0.5	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
82.5°	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	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°	0.5	0.5	0.5	0.5	0.3
80°	0.3	0.3	0.3	0.3	0.3

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Scaled Data Report



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