

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P838384

Luminaire Tested: HCSQ615D010-HM60525835-61SQC

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-2019
Report Number: P838384
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: HCSQ615D010-HM60525835-61SQC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: -

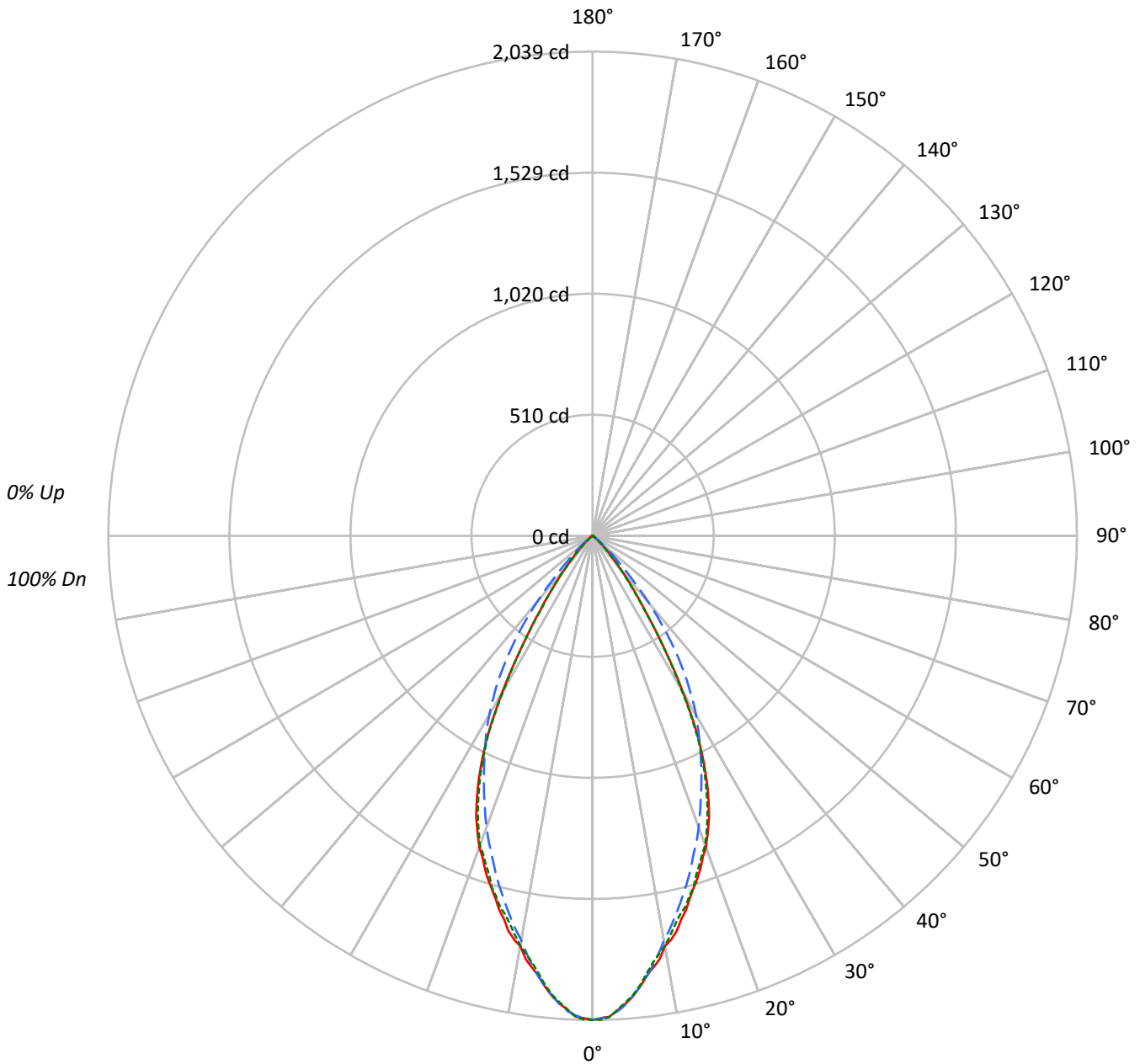
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1527.1 lumens
Efficiency: N/A
Efficacy: 109.1 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): 14
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	78	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°	87778	87778	87778
5°	84197	84050	83933
10°	76689	75644	76628
15°	70477	67896	70053
20°	63959	59839	63523
25°	54053	51435	53312
30°	37849	43298	37203
35°	20331	33213	19936
40°	10066	20554	9988
45°	4396	8665	4311
50°	1413	3148	1413
55°	713	1021	668
60°	465	465	465
65°	346	346	346
70°	252	252	252
75°	233	233	233
80°	174	174	174
85°	346	346	346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 8665 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	11.7
10°-20°	432.3	28.3
20°-30°	499.4	32.7
30°-40°	311.9	20.4
40°-50°	86.6	5.7
50°-60°	12.1	0.8
60°-70°	3.6	0.2
70°-80°	1.5	0.1
80°-90°	0.7	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°	1110.7	72.7
0°-40°	1422.5	93.2
0°-60°	1521.3	99.6
0°-90°	1527.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1527.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2039	2039	2039	2039	2039	
5°	1948	1943	1945	1942	1942	180
15°	1581	1551	1523	1547	1572	443
25°	1138	1104	1083	1104	1122	508
35°	387	477	632	472	379	257
45°	72	92	142	91	71	63
55°	10	10	14	10	9	9
65°	3	3	3	3	3	4
75°	1	1	1	1	1	1
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2038.7	2038.7	2038.7	2038.7	2038.7
1°	2032.6	2032.6	2032.6	2038.0	2038.0
2°	2026.4	2025.1	2021.7	2025.7	2027.8
3°	2001.2	2004.0	2005.3	2003.3	1998.5
4°	1975.4	1972.6	1980.1	1975.4	1971.3
5°	1948.1	1942.7	1944.7	1942.0	1942.0
6°	1910.0	1916.8	1911.3	1906.6	1903.9
7°	1868.4	1873.9	1870.5	1863.7	1858.9
8°	1835.8	1832.4	1826.9	1825.6	1817.4
9°	1804.4	1792.2	1779.9	1782.0	1784.0
10°	1754.1	1755.4	1730.2	1749.3	1752.7
11°	1732.9	1725.5	1692.1	1707.8	1713.2
12°	1702.3	1678.5	1649.9	1662.8	1673.0
13°	1658.0	1633.5	1607.7	1627.4	1637.6
14°	1624.7	1596.8	1564.1	1589.3	1610.4
15°	1581.1	1551.1	1523.2	1547.1	1571.6
16°	1543.0	1508.2	1480.3	1503.5	1540.2
17°	1509.6	1466.7	1432.7	1457.2	1492.6
18°	1470.8	1421.1	1389.8	1415.6	1455.8
19°	1427.9	1377.5	1349.6	1370.7	1417.0
20°	1395.9	1339.4	1306.0	1326.4	1386.4
22.5°	1281.5	1222.3	1191.6	1216.1	1263.8
25°	1137.8	1104.5	1082.7	1103.8	1122.2
27.5°	967.6	967.6	975.1	966.2	960.8
30°	761.3	816.4	870.9	813.7	748.3
32.5°	555.6	644.2	753.8	655.7	555.0
35°	386.8	477.3	631.9	471.9	379.3
37.5°	269.0	328.9	498.4	332.3	265.6
40°	179.1	220.6	365.7	224.7	177.7
42.5°	117.1	145.7	236.3	146.4	114.4
45°	72.2	91.9	142.3	91.2	70.8
47.5°	42.2	54.5	83.1	55.2	41.5
50°	21.1	32.0	47.0	31.3	21.1
52.5°	12.3	17.0	25.9	16.3	12.3
55°	9.5	9.5	13.6	9.5	8.9
57.5°	7.5	7.5	7.5	7.5	6.8
60°	5.4	6.1	5.4	5.4	5.4
62.5°	4.8	4.8	4.1	4.8	4.1
65°	3.4	3.4	3.4	3.4	3.4
67.5°	2.7	2.7	2.7	2.7	2.7
70°	2.0	2.0	2.0	2.0	2.0
72.5°	1.4	2.0	1.4	2.0	2.0
75°	1.4	1.4	1.4	1.4	1.4



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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°	0.7	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

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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	0.7
80°	0.7	0.7	0.7	0.7	0.7

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(END OF REPORT)