

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: P838482

Luminaire Tested: HCSQ625D010-HM60525930-61SQMB

Issue Date: 5/21/2024

Test Information

Test Method: LM-79-2019
Report Number: P838482
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: HCSQ625D010-HM60525930-61SQMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, MATTE BLACK TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

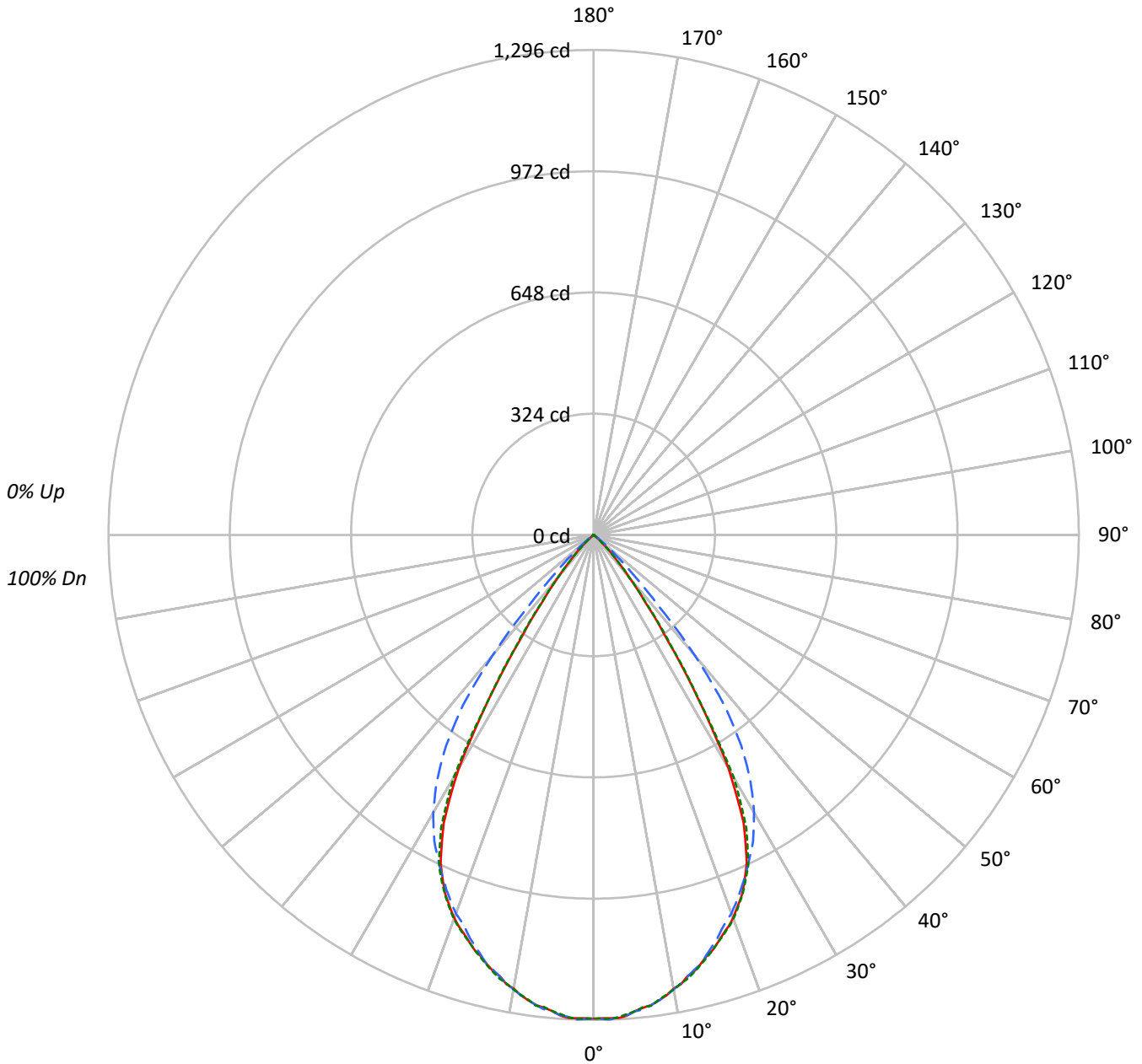
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1285.1 lumens
Efficiency: N/A
Efficacy: 46.4 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): 27.7
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°	55658	55658	55658
5°	55188	55235	55188
10°	53806	53898	53898
15°	51956	51818	52099
20°	49897	49319	50039
25°	45944	46295	46395
30°	35816	42602	37173
35°	18160	36099	18822
40°	8262	23606	8262
45°	3197	8890	3136
50°	496	2813	496
55°	158	555	158
60°	95	95	95
65°	112	0	112
70°	0	0	138
75°	0	0	183
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 8890 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	9.4
10°-20°	327.3	25.5
20°-30°	441.3	34.3
30°-40°	310.3	24.1
40°-50°	79.2	6.2
50°-60°	5.5	0.4
60°-70°	0.7	0.1
70°-80°	0.1	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°	889.3	69.2
0°-40°	1199.6	93.3
0°-60°	1284.3	99.9
0°-90°	1285.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1285.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1293	1293	1293	1293	1293	
5°	1277	1279	1278	1279	1277	121
15°	1166	1164	1162	1166	1169	328
25°	967	970	974	978	977	432
35°	346	458	687	469	358	232
45°	52	79	146	80	52	46
55°	2	2	7	2	2	3
65°	1	1	0	1	1	1
75°	0	0	0	0	1	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°	1292.7	1292.7	1292.7	1292.7	1292.7
1°	1291.6	1292.7	1293.7	1293.7	1292.7
2°	1292.7	1289.5	1295.8	1292.7	1293.7
3°	1292.7	1286.4	1289.5	1291.6	1290.6
4°	1287.4	1283.2	1286.4	1285.3	1283.2
5°	1276.9	1279.0	1278.0	1279.0	1276.9
6°	1270.6	1272.7	1274.8	1271.7	1268.5
7°	1265.4	1264.3	1265.4	1267.5	1267.5
8°	1255.9	1258.0	1255.9	1257.0	1253.8
9°	1245.4	1245.4	1245.4	1247.5	1244.4
10°	1230.7	1236.0	1232.8	1234.9	1232.8
11°	1223.4	1221.3	1221.3	1222.3	1221.3
12°	1205.5	1207.6	1206.6	1208.7	1211.8
13°	1196.1	1197.1	1192.9	1198.2	1198.2
14°	1181.4	1180.3	1182.4	1181.4	1183.5
15°	1165.6	1163.5	1162.5	1165.6	1168.8
16°	1154.1	1148.8	1145.7	1149.9	1154.1
17°	1137.3	1132.0	1127.8	1136.2	1137.3
18°	1120.5	1118.4	1107.9	1118.4	1123.6
19°	1106.8	1099.5	1090.0	1101.6	1107.9
20°	1089.0	1082.7	1076.4	1082.7	1092.1
22.5°	1037.5	1032.3	1027.0	1034.4	1039.6
25°	967.1	970.3	974.5	977.7	976.6
27.5°	867.4	895.7	922.0	905.2	883.1
30°	720.4	791.8	856.9	803.3	747.7
32.5°	521.9	643.7	779.2	667.9	527.2
35°	345.5	457.8	686.8	469.4	358.1
37.5°	224.7	307.7	573.4	308.7	235.2
40°	147.0	200.6	420.0	204.8	147.0
42.5°	90.3	127.1	255.2	132.3	90.3
45°	52.5	78.8	146.0	79.8	51.5
47.5°	24.2	43.1	83.0	42.0	25.2
50°	7.4	18.9	42.0	18.9	7.4
52.5°	3.2	5.3	20.0	5.3	3.2
55°	2.1	2.1	7.4	2.1	2.1
57.5°	2.1	1.1	2.1	2.1	2.1
60°	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	0.0	1.1	1.1
67.5°	1.1	0.0	0.0	0.0	1.1
70°	0.0	0.0	0.0	0.0	1.1
72.5°	0.0	0.0	0.0	0.0	1.1
75°	0.0	0.0	0.0	0.0	1.1



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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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