

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: P838298

Luminaire Tested: HCSQ607D010-HM60525827-61SQMW

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-2019
Report Number: P838298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2309-166-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCSQ607D010-HM60525827-61SQMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: -

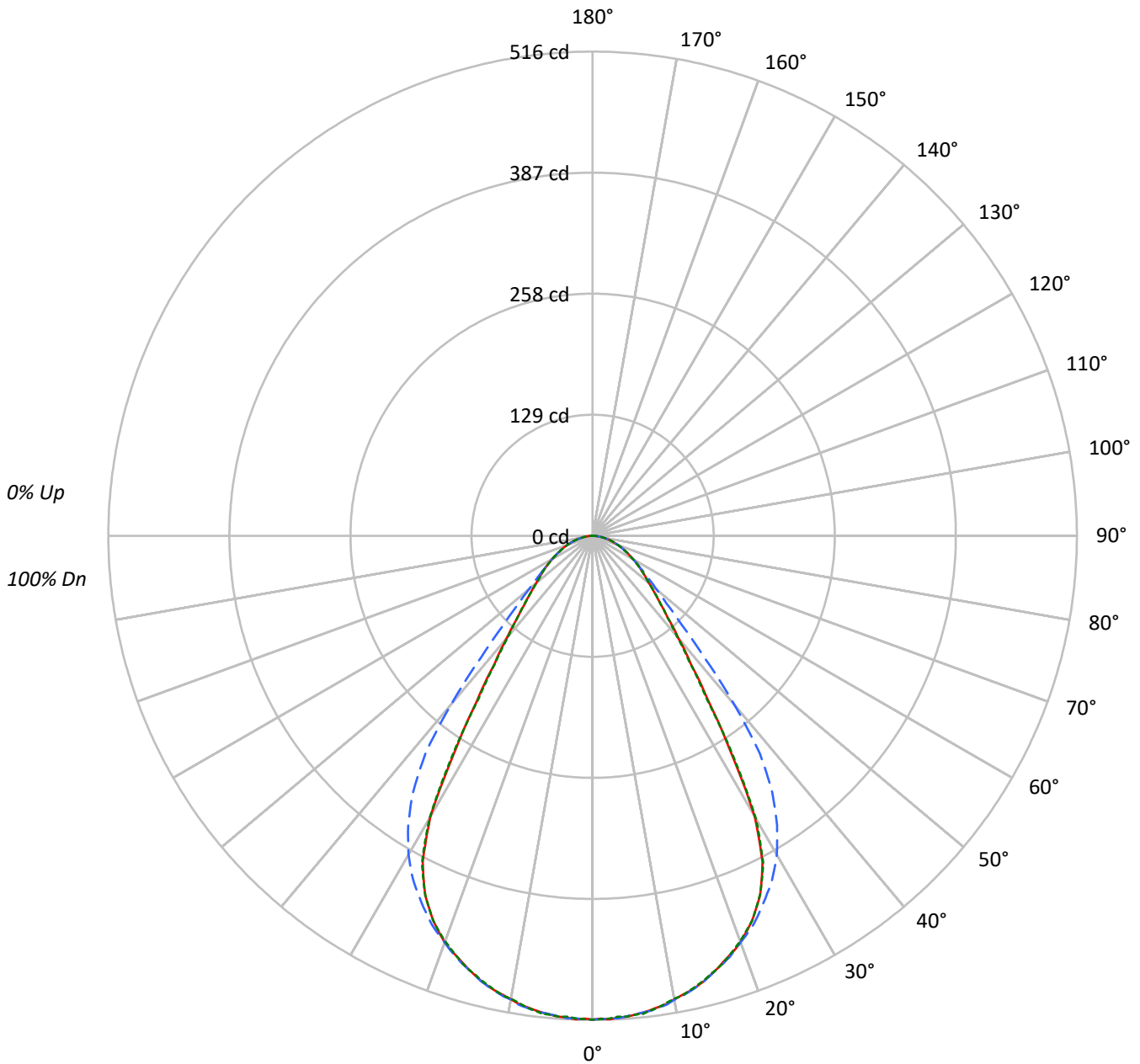
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 760.6 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
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																			
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71																			
4	91	81	74	69	89	80	73	68	77	72	67	75	70	67	73	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48																			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44																			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41																			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22204	22204	22204
5°	22146	22133	22146
10°	21930	21947	21899
15°	21605	21619	21574
20°	21118	21132	21068
25°	20062	20490	20048
30°	17182	19509	17286
35°	11290	17540	11117
40°	7981	13225	7841
45°	6186	8141	6229
50°	5265	5935	5211
55°	4737	4872	4737
60°	4280	4280	4280
65°	3933	3892	3892
70°	3588	3588	3626
75°	3360	3244	3294
80°	2951	2951	2951
85°	2470	2470	2470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 8141 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	6.4
10°-20°	136.5	17.9
20°-30°	194.5	25.6
30°-40°	165.9	21.8
40°-50°	91.8	12.1
50°-60°	57.8	7.6
60°-70°	38.4	5.0
70°-80°	21.1	2.8
80°-90°	6.0	0.8
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°	379.7	49.9
0°-40°	545.6	71.7
0°-60°	695.1	91.4
0°-90°	760.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	760.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	512	513	512	511	512	49
15°	485	485	485	485	484	136
25°	422	427	431	427	422	191
35°	215	253	334	254	212	140
45°	102	111	134	111	102	81
55°	63	64	65	64	63	57
65°	39	39	38	39	38	38
75°	20	20	20	20	20	21
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.7	515.7	515.7	515.7	515.7
1°	514.6	515.3	515.3	514.9	515.3
2°	515.7	514.6	514.6	514.6	514.9
3°	514.2	514.9	514.9	513.9	513.1
4°	513.9	513.5	513.5	514.6	513.9
5°	512.4	513.1	512.1	511.3	512.4
6°	511.0	511.3	511.0	511.3	512.4
7°	509.2	510.3	509.9	509.5	509.5
8°	507.0	508.5	507.7	507.7	507.4
9°	504.9	505.2	505.9	505.9	503.8
10°	501.6	502.7	502.0	502.3	500.9
11°	498.7	500.2	499.8	499.1	499.4
12°	496.2	496.9	496.6	495.5	495.8
13°	493.0	493.7	493.3	493.3	492.2
14°	489.4	488.6	489.7	489.0	488.6
15°	484.7	484.7	485.0	484.7	484.0
16°	480.3	480.7	480.7	480.3	480.7
17°	475.3	476.7	476.4	475.7	476.0
18°	470.6	471.7	472.1	471.7	470.6
19°	466.3	467.0	466.7	465.2	465.2
20°	460.9	461.2	461.2	460.5	459.8
22.5°	444.0	446.5	448.3	446.8	444.0
25°	422.3	427.4	431.3	427.0	422.0
27.5°	392.1	402.2	414.0	403.2	393.9
30°	345.6	368.6	392.4	370.8	347.7
32.5°	274.9	320.4	365.8	324.7	279.3
35°	214.8	253.3	333.7	253.7	211.5
37.5°	171.5	198.9	292.6	197.1	169.7
40°	142.0	160.4	235.3	159.6	139.5
42.5°	118.6	132.6	176.2	131.2	118.6
45°	101.6	111.3	133.7	110.6	102.3
47.5°	89.0	95.1	107.0	94.8	89.0
50°	78.6	82.2	88.6	81.8	77.8
52.5°	70.3	72.4	75.0	71.7	69.5
55°	63.1	64.1	64.9	63.8	63.1
57.5°	56.2	56.9	56.6	56.2	55.9
60°	49.7	50.1	49.7	50.1	49.7
62.5°	44.0	44.3	43.6	44.0	43.6
65°	38.6	38.9	38.2	38.6	38.2
67.5°	33.5	33.5	33.5	33.5	33.2
70°	28.5	28.8	28.5	28.8	28.8
72.5°	24.1	24.1	23.8	24.1	24.1
75°	20.2	19.8	19.5	19.8	19.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
82.5°	8.6	8.6	8.3	8.6	8.6
85°	5.0	5.0	5.0	5.4	5.0
87.5°	2.5	2.2	2.2	2.5	2.5
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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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77.5°	15.9	15.9	15.5	15.9	15.9
80°	11.9	12.3	11.9	12.3	11.9

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(END OF REPORT)