

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: P838268

Luminaire Tested: HCSQ605D010-HM60525835-61SQMW

Issue Date: 5/21/2024

Test Information

Test Method: LM-79-2019
Report Number: P838268
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: HCSQ605D010-HM60525835-61SQMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: -

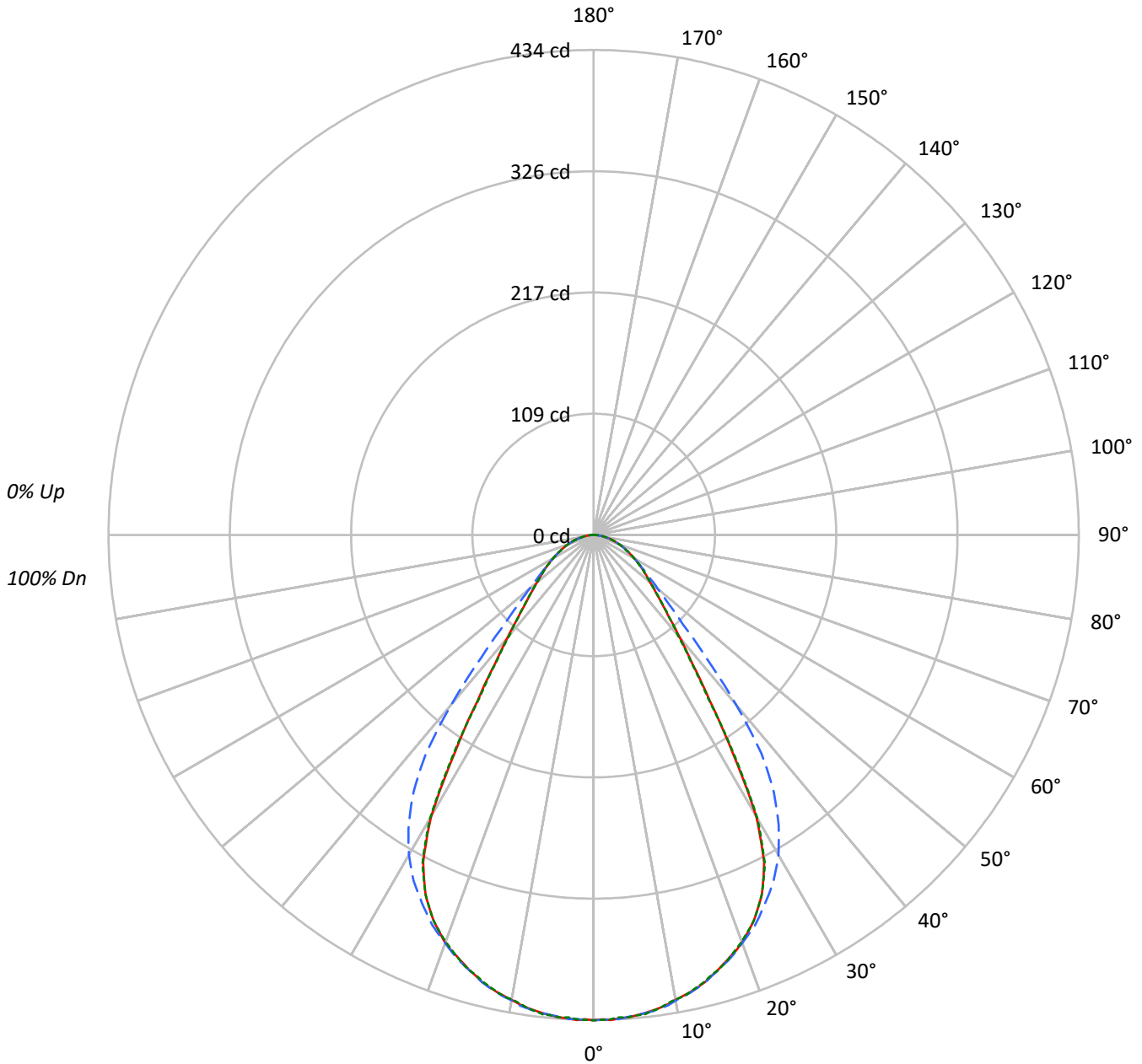
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 640.8 lumens
Efficiency: N/A
Efficacy: 106.8 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): 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	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°	18703	18703	18703
5°	18658	18645	18658
10°	18476	18489	18450
15°	18200	18213	18173
20°	17791	17805	17750
25°	16903	17264	16889
30°	14472	16436	14567
35°	9508	14775	9366
40°	6722	11140	6604
45°	5212	6856	5249
50°	4434	5004	4394
55°	3986	4099	3986
60°	3608	3608	3608
65°	3311	3280	3280
70°	3021	3021	3059
75°	2828	2728	2778
80°	2479	2479	2479
85°	2124	2124	2124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6856 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	6.4
10°-20°	115.0	17.9
20°-30°	163.9	25.6
30°-40°	139.7	21.8
40°-50°	77.3	12.1
50°-60°	48.7	7.6
60°-70°	32.3	5.0
70°-80°	17.8	2.8
80°-90°	5.1	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°	319.9	49.9
0°-40°	459.6	71.7
0°-60°	585.6	91.4
0°-90°	640.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	640.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	434	434	434	434	434	
5°	432	432	431	431	432	41
15°	408	408	409	408	408	115
25°	356	360	363	360	356	161
35°	181	213	281	214	178	118
45°	86	94	113	93	86	68
55°	53	54	55	54	53	48
65°	32	33	32	32	32	32
75°	17	17	16	17	17	18
85°	4	4	4	5	4	5
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	434.4	434.4	434.4	434.4	434.4
1°	433.5	434.1	434.1	433.8	434.1
2°	434.4	433.5	433.5	433.5	433.8
3°	433.2	433.8	433.8	432.9	432.3
4°	432.9	432.6	432.6	433.5	432.9
5°	431.7	432.3	431.4	430.8	431.7
6°	430.5	430.8	430.5	430.8	431.7
7°	429.0	429.9	429.6	429.3	429.3
8°	427.2	428.4	427.8	427.8	427.5
9°	425.3	425.6	426.2	426.2	424.4
10°	422.6	423.5	422.9	423.2	422.0
11°	420.2	421.4	421.1	420.5	420.8
12°	418.0	418.7	418.4	417.4	417.7
13°	415.3	415.9	415.6	415.6	414.7
14°	412.3	411.7	412.6	412.0	411.7
15°	408.3	408.3	408.6	408.3	407.7
16°	404.7	405.0	405.0	404.7	405.0
17°	400.4	401.7	401.3	400.7	401.0
18°	396.5	397.4	397.7	397.4	396.5
19°	392.8	393.5	393.2	391.9	391.9
20°	388.3	388.6	388.6	388.0	387.4
22.5°	374.0	376.2	377.7	376.5	374.0
25°	355.8	360.1	363.4	359.8	355.5
27.5°	330.3	338.8	348.8	339.7	331.8
30°	291.1	310.6	330.6	312.4	293.0
32.5°	231.6	269.9	308.1	273.5	235.3
35°	180.9	213.4	281.1	213.7	178.2
37.5°	144.5	167.6	246.5	166.1	143.0
40°	119.6	135.1	198.2	134.5	117.5
42.5°	99.9	111.7	148.5	110.5	99.9
45°	85.6	93.8	112.6	93.2	86.2
47.5°	75.0	80.1	90.2	79.8	75.0
50°	66.2	69.2	74.7	68.9	65.6
52.5°	59.2	61.0	63.1	60.4	58.6
55°	53.1	54.0	54.6	53.7	53.1
57.5°	47.4	48.0	47.7	47.4	47.1
60°	41.9	42.2	41.9	42.2	41.9
62.5°	37.0	37.3	36.7	37.0	36.7
65°	32.5	32.8	32.2	32.5	32.2
67.5°	28.2	28.2	28.2	28.2	27.9
70°	24.0	24.3	24.0	24.3	24.3
72.5°	20.3	20.3	20.0	20.3	20.3
75°	17.0	16.7	16.4	16.7	16.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
82.5°	7.3	7.3	7.0	7.3	7.3
85°	4.3	4.3	4.3	4.6	4.3
87.5°	2.1	1.8	1.8	2.1	2.1
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°	13.4	13.4	13.1	13.4	13.4
80°	10.0	10.3	10.0	10.3	10.0

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(END OF REPORT)