

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: P838289

Luminaire Tested: HCSQ605D010-HM60525940-61SQC

Issue Date: 5/21/2024

Test Information

Test Method: LM-79-2019
Report Number: P838289
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-HM60525940-61SQC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

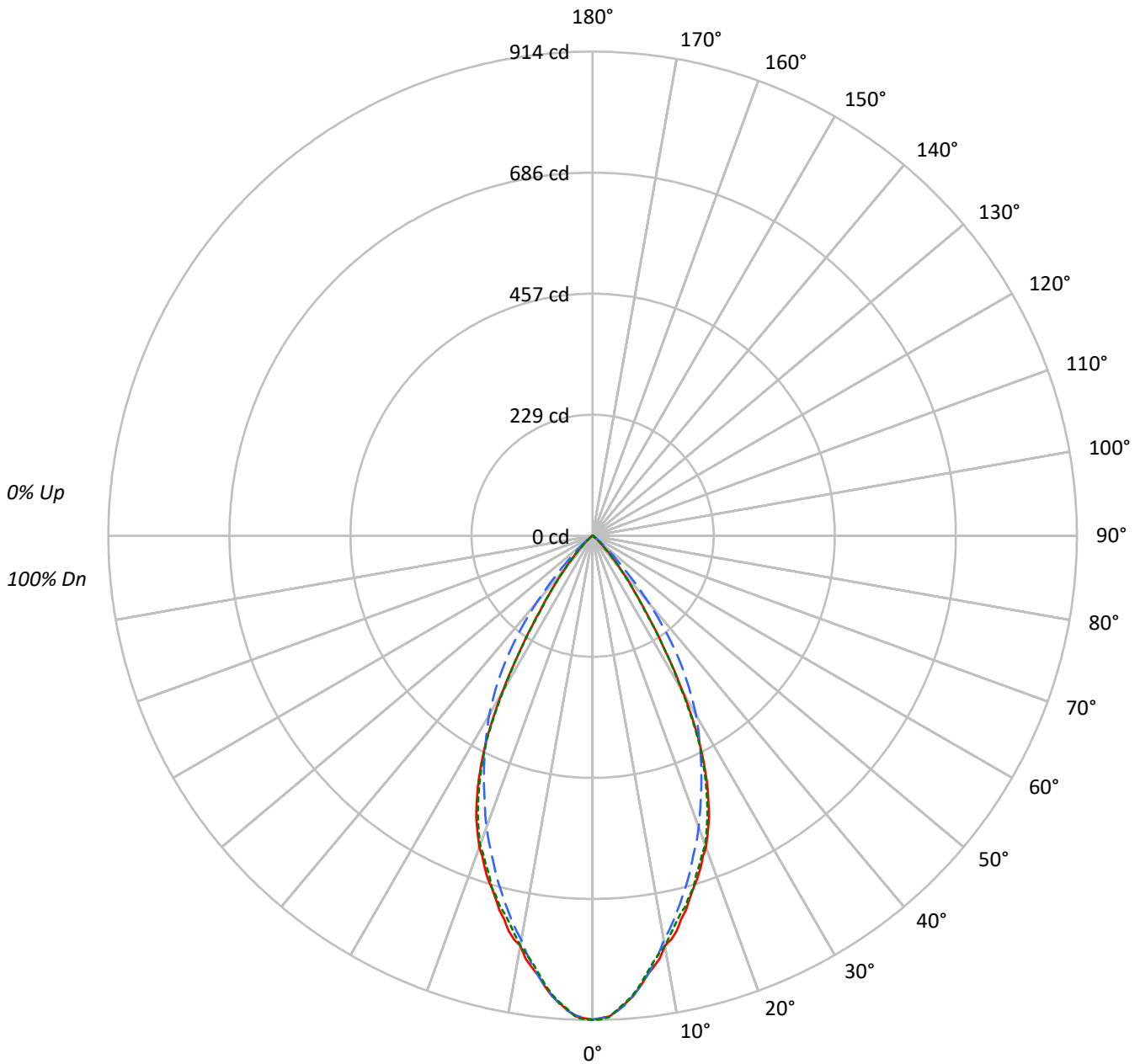
Lumens per Lamp: N/A
Luminaire Lumens: 684.2 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.81 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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					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					100			
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94					94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76					76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71					71			
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66					66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62					62			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59					59			
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	56	55					55			
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52					52			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39331	39331	39331
5°	37731	37662	37610
10°	34364	33896	34338
15°	31581	30427	31389
20°	28660	26813	28463
25°	24224	23045	23886
30°	16958	19404	16670
35°	9109	14885	8935
40°	4508	9212	4474
45°	1967	3885	1930
50°	636	1413	636
55°	323	458	300
60°	207	207	207
65°	153	153	153
70°	113	113	113
75°	100	100	100
80°	74	74	74
85°	148	148	148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 3885 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	11.7
10°-20°	193.7	28.3
20°-30°	223.8	32.7
30°-40°	139.7	20.4
40°-50°	38.8	5.7
50°-60°	5.4	0.8
60°-70°	1.6	0.2
70°-80°	0.7	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°	497.7	72.7
0°-40°	637.4	93.2
0°-60°	681.7	99.6
0°-90°	684.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	684.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	873	870	871	870	870	80
15°	708	695	683	693	704	198
25°	510	495	485	495	503	228
35°	173	214	283	212	170	115
45°	32	41	64	41	32	28
55°	4	4	6	4	4	4
65°	2	2	2	2	2	2
75°	1	1	1	1	1	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°	913.5	913.5	913.5	913.5	913.5
1°	910.8	910.8	910.8	913.2	913.2
2°	908.0	907.4	905.9	907.7	908.7
3°	896.8	898.0	898.6	897.7	895.5
4°	885.2	883.9	887.3	885.2	883.3
5°	873.0	870.5	871.4	870.2	870.2
6°	855.9	858.9	856.5	854.3	853.1
7°	837.3	839.7	838.2	835.1	833.0
8°	822.6	821.1	818.6	818.0	814.4
9°	808.6	803.1	797.6	798.5	799.4
10°	786.0	786.6	775.3	783.9	785.4
11°	776.5	773.2	758.2	765.2	767.7
12°	762.8	752.1	739.3	745.1	749.7
13°	743.0	732.0	720.4	729.2	733.8
14°	728.0	715.5	700.9	712.2	721.6
15°	708.5	695.1	682.6	693.2	704.2
16°	691.4	675.8	663.3	673.7	690.2
17°	676.5	657.2	642.0	653.0	668.8
18°	659.1	636.8	622.8	634.4	652.4
19°	639.8	617.3	604.8	614.2	635.0
20°	625.5	600.2	585.2	594.4	621.2
22.5°	574.2	547.7	534.0	544.9	566.3
25°	509.9	494.9	485.1	494.6	502.8
27.5°	433.6	433.6	436.9	433.0	430.5
30°	341.1	365.8	390.3	364.6	335.3
32.5°	249.0	288.6	337.8	293.8	248.7
35°	173.3	213.9	283.2	211.5	170.0
37.5°	120.5	147.4	223.4	148.9	119.0
40°	80.2	98.9	163.9	100.7	79.6
42.5°	52.5	65.3	105.9	65.6	51.3
45°	32.3	41.2	63.8	40.9	31.7
47.5°	18.9	24.4	37.2	24.7	18.6
50°	9.5	14.3	21.1	14.0	9.5
52.5°	5.5	7.6	11.6	7.3	5.5
55°	4.3	4.3	6.1	4.3	4.0
57.5°	3.4	3.4	3.4	3.4	3.1
60°	2.4	2.7	2.4	2.4	2.4
62.5°	2.1	2.1	1.8	2.1	1.8
65°	1.5	1.5	1.5	1.5	1.5
67.5°	1.2	1.2	1.2	1.2	1.2
70°	0.9	0.9	0.9	0.9	0.9
72.5°	0.6	0.9	0.6	0.9	0.9
75°	0.6	0.6	0.6	0.6	0.6



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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

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Scaled Data Report





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

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77.5°	0.6	0.6	0.6	0.6	0.3
80°	0.3	0.3	0.3	0.3	0.3

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(END OF REPORT)