

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: P838257

Luminaire Tested: HCSQ605D010-HM60525827-61SQMB

Issue Date: 5/21/2024

Test Information

Test Method: LM-79-2019
Report Number: P838257
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: HCSQ605D010-HM60525827-61SQMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, MATTE BLACK TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: -

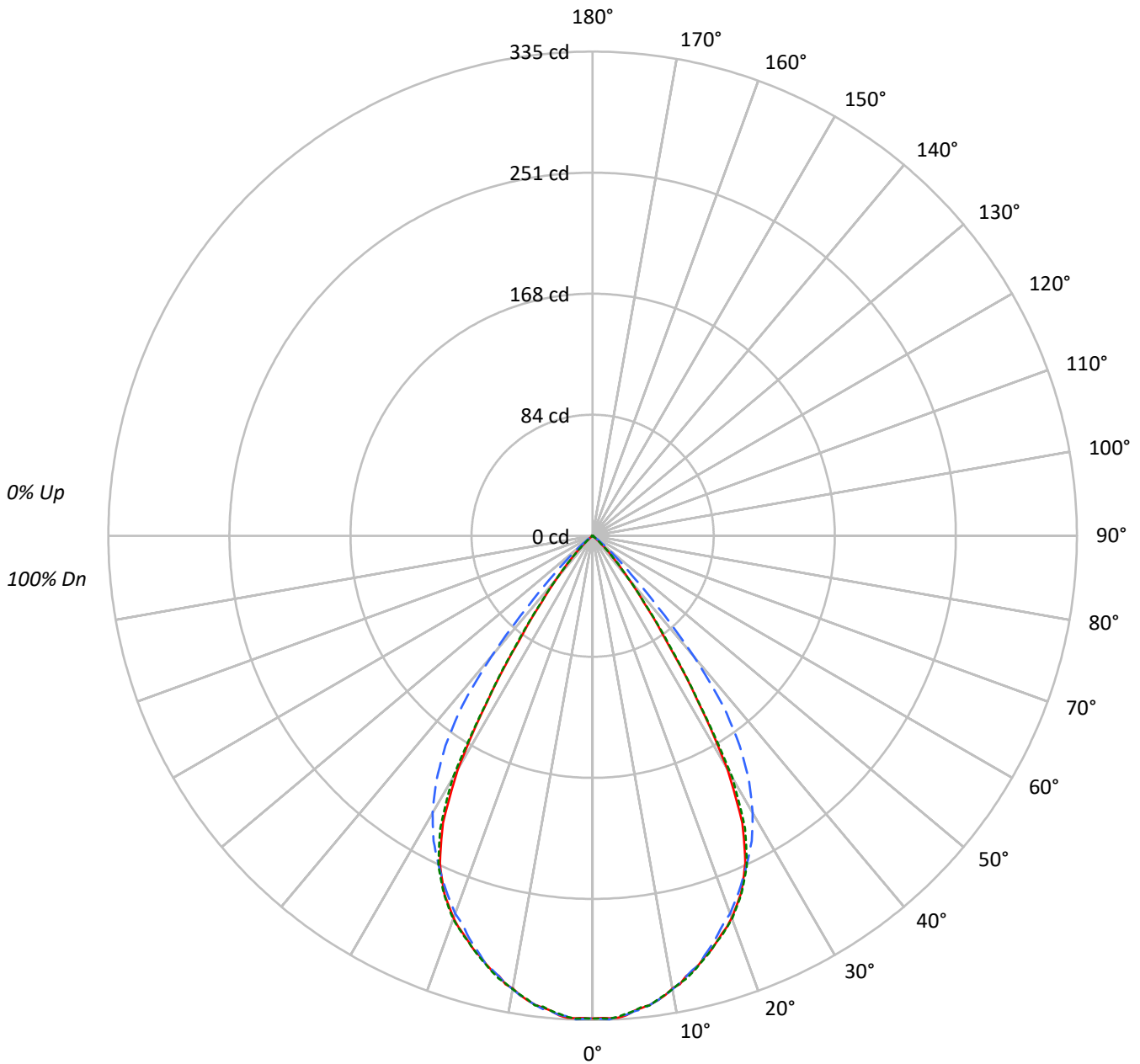
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 332.0 lumens
Efficiency: N/A
Efficacy: 55.3 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): 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					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	100	100	100	100		
	1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93	93	93	93	93	93		
	2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87	87	87	87	87	87		
	3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	85	82	81	81	81	81	81	81		
	4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75	75	75	75	75	75		
	5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70	70	70	70	70	70		
	6	87	78	72	68	86	77	72	68	76	71	67	75	70	67	73	69	66	65	65	65	65	65	65		
	7	83	73	67	63	81	73	67	63	71	66	63	70	66	62	69	65	62	60	60	60	60	60	60		
	8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56	56	56	56	56	56		
	9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53	53	53	53	53	53		
	10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50	50	50	50	50	50		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14381	14381	14381
5°	14258	14271	14258
10°	13903	13925	13925
15°	13421	13386	13457
20°	12889	12742	12926
25°	11872	11962	11986
30°	9252	11007	9605
35°	4694	9324	4862
40°	2136	6098	2136
45°	828	2296	810
50°	127	730	127
55°	38	143	38
60°	26	26	26
65°	31	0	31
70°	0	0	38
75°	0	0	50
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2296 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	9.4
10°-20°	84.6	25.5
20°-30°	114.0	34.3
30°-40°	80.2	24.1
40°-50°	20.5	6.2
50°-60°	1.4	0.4
60°-70°	0.2	0.1
70°-80°	0.0	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°	229.8	69.2
0°-40°	309.9	93.3
0°-60°	331.8	99.9
0°-90°	332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	334	334	334	334	334	
5°	330	330	330	330	330	31
15°	301	301	300	301	302	85
25°	250	251	252	253	252	112
35°	89	118	177	121	92	60
45°	14	20	38	21	13	12
55°	0	0	2	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	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°	334.0	334.0	334.0	334.0	334.0
1°	333.7	334.0	334.2	334.2	334.0
2°	334.0	333.1	334.8	334.0	334.2
3°	334.0	332.3	333.1	333.7	333.4
4°	332.6	331.5	332.3	332.1	331.5
5°	329.9	330.4	330.2	330.4	329.9
6°	328.3	328.8	329.3	328.5	327.7
7°	326.9	326.6	326.9	327.4	327.4
8°	324.5	325.0	324.5	324.7	323.9
9°	321.7	321.7	321.7	322.3	321.5
10°	318.0	319.3	318.5	319.0	318.5
11°	316.1	315.5	315.5	315.8	315.5
12°	311.4	312.0	311.7	312.3	313.1
13°	309.0	309.3	308.2	309.5	309.5
14°	305.2	304.9	305.5	305.2	305.7
15°	301.1	300.6	300.3	301.1	301.9
16°	298.1	296.8	296.0	297.1	298.1
17°	293.8	292.4	291.4	293.5	293.8
18°	289.5	288.9	286.2	288.9	290.3
19°	285.9	284.0	281.6	284.6	286.2
20°	281.3	279.7	278.1	279.7	282.1
22.5°	268.0	266.7	265.3	267.2	268.6
25°	249.9	250.7	251.8	252.6	252.3
27.5°	224.1	231.4	238.2	233.9	228.2
30°	186.1	204.6	221.4	207.5	193.2
32.5°	134.8	166.3	201.3	172.5	136.2
35°	89.3	118.3	177.4	121.3	92.5
37.5°	58.1	79.5	148.1	79.8	60.8
40°	38.0	51.8	108.5	52.9	38.0
42.5°	23.3	32.8	65.9	34.2	23.3
45°	13.6	20.3	37.7	20.6	13.3
47.5°	6.2	11.1	21.4	10.9	6.5
50°	1.9	4.9	10.9	4.9	1.9
52.5°	0.8	1.4	5.2	1.4	0.8
55°	0.5	0.5	1.9	0.5	0.5
57.5°	0.5	0.3	0.5	0.5	0.5
60°	0.3	0.3	0.3	0.3	0.3
62.5°	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.0	0.3	0.3
67.5°	0.3	0.0	0.0	0.0	0.3
70°	0.0	0.0	0.0	0.0	0.3
72.5°	0.0	0.0	0.0	0.0	0.3
75°	0.0	0.0	0.0	0.0	0.3



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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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Scaled Data Report



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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Scaled Data Report



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