

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

Report Number: P600888

Luminaire Tested: LTB6089FS351EWHDMR

Issue Date: 7/27/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600888  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( )  
Test Lab: INNOVATION CENTER  
Issue Date: 7/27/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: LTB6089FS351EWHDMR  
Description: 6' Fixture at 5000K  
Light Source: -  
Ballast/Driver: -

**Summary**

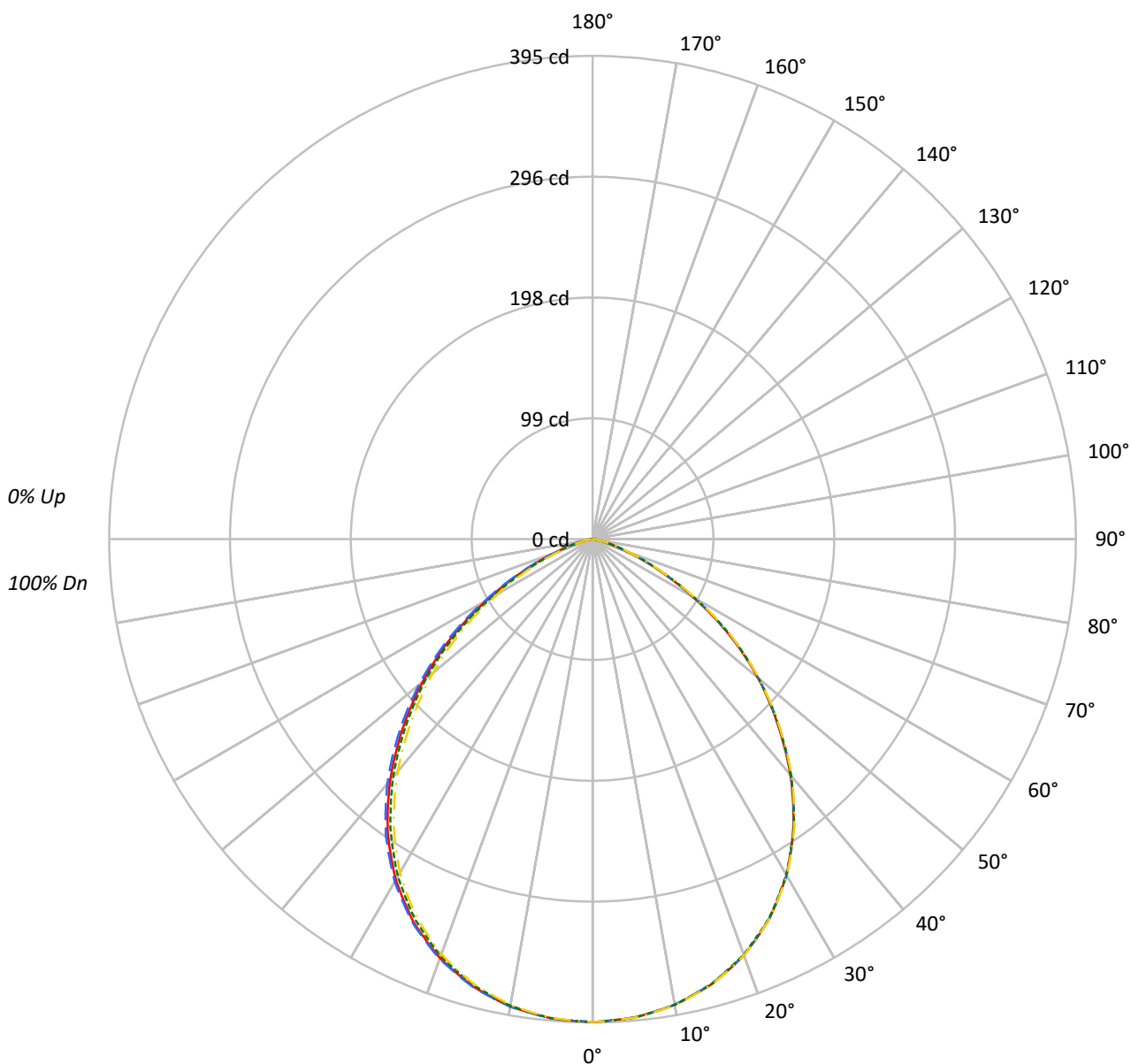
Lumens per Lamp: 762.88 (1 lamp)  
Luminaire Lumens: 850.2 lumens  
Efficiency: 111.5%  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 8.4  
Input Voltage (V): NR  
Input Current (Ain): 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	50	30	10	0													
RCR																																					
0	133	133	133	133	130	130	130	130	124	124	124	119	119	119	114	114	114	111						111													
1	124	119	115	112	121	117	113	110	112	109	107	108	106	103	104	102	100	98						98													
2	114	106	100	95	111	104	98	93	101	96	91	97	93	89	94	90	87	85						85													
3	105	95	87	81	103	93	86	80	90	84	79	87	82	78	84	80	76	74						74													
4	97	85	77	70	95	84	76	70	81	74	69	79	73	68	76	71	67	65						65													
5	90	77	68	61	88	76	67	61	74	66	60	71	65	60	69	64	59	57						57													
6	83	70	61	54	81	69	60	54	67	59	54	65	58	53	63	57	53	51						51													
7	78	64	55	48	76	63	54	48	61	54	48	60	53	48	58	52	47	45						45													
8	72	58	50	44	71	58	49	43	56	49	43	55	48	43	54	47	43	41						41													
9	68	54	45	39	66	53	45	39	52	44	39	51	44	39	50	43	39	37						37													
10	64	50	42	36	62	49	41	36	48	41	36	47	40	36	46	40	36	34						34													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	21638	21638	21638	21638
5°	21599	21605	21632	21621
10°	21520	21515	21587	21554
15°	21374	21351	21476	21402
20°	21119	21078	21264	21159
25°	20699	20656	20910	20747
30°	20066	20035	20351	20142
35°	19160	19180	19535	19267
40°	18005	18055	18413	18134
45°	16591	16668	17025	16715
50°	15061	15113	15445	15138
55°	13046	13199	13543	13123
60°	10449	10602	10942	10438
65°	7614	7835	8159	7562
70°	4712	4985	5305	4712
75°	2648	2944	3114	2711
80°	1326	1736	1799	1421
85°	881	1006	1006	881

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 225°  
 Vertical Angle: 45°  
 Luminance: 17327 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	37.3	4.4	4.9
10°-20°	106.3	12.5	13.9
20°-30°	157.7	18.5	20.7
30°-40°	179.7	21.1	23.6
40°-50°	166.5	19.6	21.8
50°-60°	123.0	14.5	16.1
60°-70°	61.1	7.2	8.0
70°-80°	16.6	1.9	2.2
80°-90°	2.2	0.3	0.3
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	301.3	35.4	39.5
0°-40°	480.9	56.6	63.0
0°-60°	770.4	90.6	101.0
0°-90°	850.2	100.0	111.5
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	850.2	100.0	111.5

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	395	395	395	395	395	
5°	392	393	393	393	392	37
15°	377	376	378	377	377	106
25°	342	342	346	343	342	157
35°	286	287	292	288	286	179
45°	214	215	220	216	214	165
55°	136	138	142	137	136	122
65°	59	60	63	58	59	60
75°	12	14	15	13	12	15
85°	1	2	2	1	1	2
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	394.7	394.7	394.7	394.7	394.7	394.7	394.7	394.7	394.7	394.7	394.7
5°	392.5	392.6	392.5	392.5	392.6	392.7	392.7	392.9	393.1	393.1	393.2
10°	386.6	386.7	386.4	386.5	386.5	386.6	386.9	387.3	387.8	388.0	388.0
15°	376.6	376.8	376.3	376.1	376.2	376.0	376.7	377.3	378.4	378.6	378.8
20°	362.0	362.4	361.7	361.6	361.3	361.0	362.0	362.8	364.5	364.9	365.2
25°	342.2	342.9	342.1	341.9	341.5	340.9	342.3	343.3	345.7	346.2	346.8
30°	317.0	318.2	317.2	316.9	316.5	315.8	317.4	318.6	321.5	322.5	323.3
35°	286.3	288.1	287.0	286.8	286.6	285.7	287.4	288.5	291.9	293.1	294.5
40°	251.6	253.5	252.5	252.4	252.3	251.4	253.1	253.9	257.3	258.9	260.8
45°	214.0	216.1	214.9	215.0	215.0	214.0	215.7	216.2	219.6	221.2	223.5
50°	176.6	178.5	177.2	177.1	177.2	176.3	177.8	178.1	181.1	182.8	185.1
55°	136.5	138.7	137.4	137.8	138.1	137.2	138.8	138.7	141.7	143.1	145.6
60°	95.3	97.1	95.9	96.2	96.7	95.9	97.4	97.2	99.8	100.8	102.8
65°	58.7	60.5	59.6	59.8	60.4	59.7	61.1	61.0	62.9	63.5	65.0
70°	29.4	30.7	30.4	30.6	31.1	30.9	31.8	32.0	33.1	33.4	33.8
75°	12.5	12.9	13.0	13.3	13.9	13.9	14.4	14.7	14.7	14.9	14.5
80°	4.2	4.9	4.4	5.1	5.5	5.0	5.7	5.1	5.7	5.1	5.6
85°	1.4	1.4	1.4	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	394.7	394.7	394.7	394.7	394.7	394.7
5°	393.0	392.9	392.9	392.7	392.7	392.5
10°	387.5	387.2	387.1	386.6	386.8	386.6
15°	377.9	377.1	376.8	376.2	376.6	376.6
20°	364.0	362.7	362.0	361.1	361.9	362.0
25°	345.1	343.0	342.0	340.7	341.9	342.2
30°	321.1	318.2	316.5	314.7	316.4	317.0
35°	291.9	287.9	285.4	283.4	285.6	286.3
40°	258.0	253.4	249.8	247.5	250.3	251.6
45°	220.8	215.6	211.2	208.8	212.5	214.0
50°	182.8	177.5	172.4	170.3	174.7	176.6
55°	143.2	137.3	132.4	130.2	134.9	136.5
60°	100.7	95.2	91.0	89.3	93.7	95.3
65°	62.9	58.3	55.8	54.3	57.3	58.7
70°	32.1	29.4	28.5	27.7	28.8	29.4
75°	13.6	12.8	12.7	12.3	12.6	12.5
80°	4.9	4.5	4.9	4.3	4.7	4.2
85°	1.5	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.1	0.0	0.0
150°	0.0	0.0	0.0	0.1	0.1	0.1
155°	0.0	0.0	0.0	0.1	0.1	0.1
160°	0.0	0.0	0.0	0.0	0.1	0.1
165°	0.0	0.0	0.0	0.0	0.0	0.1
170°	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0

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Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°    - - 45°-225°    - - - 90°-270°    - · - 135°-315°









(END OF REPORT)