

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: P600887

Luminaire Tested: LTB6089FS351EWHDMR

Issue Date: 7/27/2022

Test Information

Test Method: LM-79-2019
Report Number: P600887
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 4000K
Light Source: -
Ballast/Driver: -

Summary

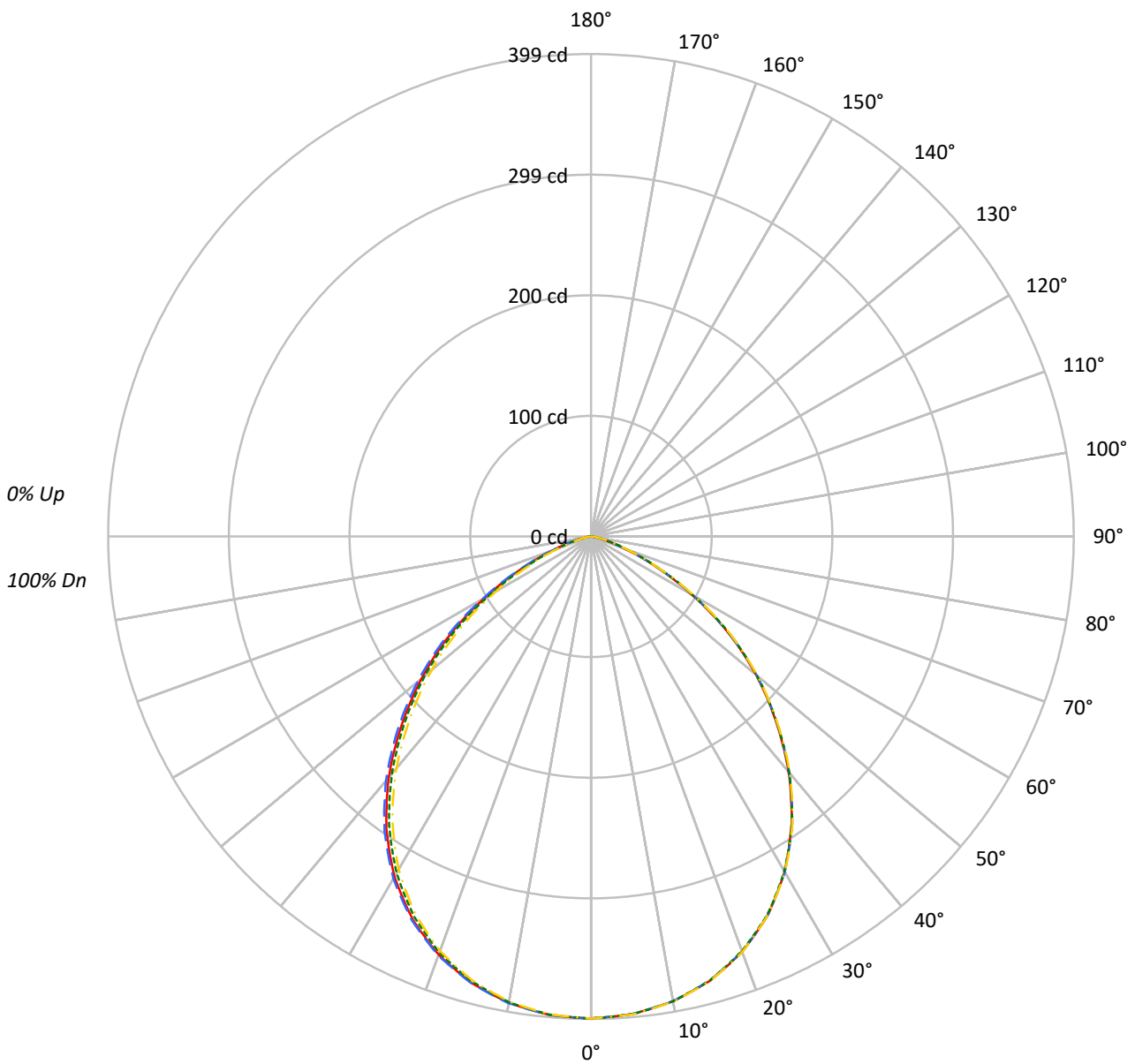
Lumens per Lamp: 762.88 (1 lamp)
Luminaire Lumens: 858.6 lumens
Efficiency: 112.5%
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 8.1
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					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	0	
RCR																						
0	134	134	134	134	131	131	131	131	125	125	125	120	120	120	115	115	115	113				113
1	125	120	117	113	122	118	114	111	113	110	108	109	107	104	105	103	101				99	
2	115	107	101	96	112	105	99	94	102	97	92	98	94	90	95	91	88				86	
3	106	96	88	82	104	94	87	81	91	85	80	88	83	78	85	81	77				75	
4	98	86	77	71	96	85	77	70	82	75	69	80	73	68	77	72	68				65	
5	91	78	69	62	89	77	68	62	74	67	61	72	66	60	70	64	60				58	
6	84	71	61	55	82	70	61	55	68	60	54	66	59	54	64	58	53				51	
7	78	64	55	49	77	64	55	49	62	54	48	60	53	48	59	53	48				46	
8	73	59	50	44	72	58	50	44	57	49	44	56	49	43	54	48	43				41	
9	69	54	46	40	67	54	45	40	53	45	40	51	44	39	50	44	39				37	
10	64	50	42	36	63	50	42	36	49	41	36	48	41	36	47	40	36				34	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	21851	21851	21851	21851
5°	21814	21814	21847	21836
10°	21732	21726	21799	21765
15°	21584	21561	21686	21612
20°	21323	21282	21474	21364
25°	20904	20862	21116	20953
30°	20263	20231	20554	20339
35°	19347	19368	19722	19461
40°	18184	18234	18599	18313
45°	16754	16831	17188	16878
50°	15206	15257	15599	15283
55°	13180	13333	13677	13247
60°	10558	10701	11052	10536
65°	7692	7913	8250	7627
70°	4760	5033	5369	4744
75°	2669	2987	3156	2732
80°	1326	1736	1799	1421
85°	881	1006	1069	881

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 225°
 Vertical Angle: 45°
 Luminance: 17498 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	37.7	4.4	4.9
10°-20°	107.3	12.5	14.1
20°-30°	159.2	18.5	20.9
30°-40°	181.4	21.1	23.8
40°-50°	168.1	19.6	22.0
50°-60°	124.2	14.5	16.3
60°-70°	61.7	7.2	8.1
70°-80°	16.7	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°	304.2	35.4	39.9
0°-40°	485.7	56.6	63.7
0°-60°	778.0	90.6	102.0
0°-90°	858.6	100.0	112.5
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°	858.6	100.0	112.5

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	399	399	399	399	399	
5°	396	396	397	397	396	38
15°	380	380	382	381	380	107
25°	346	345	349	346	346	159
35°	289	289	295	291	289	180
45°	216	217	222	218	216	167
55°	138	140	143	139	138	123
65°	59	61	64	59	59	60
75°	13	14	15	13	13	16
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°	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6
5°	396.4	396.5	396.3	396.3	396.4	396.6	396.6	396.8	397.0	397.0	397.1
10°	390.4	390.5	390.2	390.3	390.3	390.3	390.6	391.1	391.6	391.8	391.9
15°	380.3	380.5	380.0	379.8	379.9	379.7	380.4	381.0	382.1	382.3	382.5
20°	365.5	366.0	365.2	365.2	364.8	364.5	365.6	366.4	368.1	368.5	368.8
25°	345.6	346.3	345.5	345.3	344.9	344.3	345.6	346.7	349.1	349.6	350.2
30°	320.1	321.4	320.3	320.0	319.6	318.9	320.5	321.7	324.7	325.7	326.5
35°	289.1	291.0	289.9	289.6	289.4	288.5	290.2	291.4	294.7	296.0	297.4
40°	254.1	256.0	254.9	254.9	254.8	253.9	255.6	256.4	259.9	261.5	263.4
45°	216.1	218.3	217.1	217.1	217.1	216.1	217.8	218.3	221.7	223.3	225.7
50°	178.3	180.3	178.9	178.9	178.9	178.0	179.6	179.8	182.9	184.6	186.9
55°	137.9	140.1	138.7	139.1	139.5	138.5	140.2	140.1	143.1	144.5	147.0
60°	96.3	98.1	96.9	97.1	97.6	96.8	98.3	98.1	100.8	101.8	103.8
65°	59.3	61.1	60.2	60.4	61.0	60.3	61.7	61.6	63.6	64.1	65.6
70°	29.7	31.0	30.7	30.9	31.4	31.2	32.1	32.3	33.5	33.7	34.2
75°	12.6	13.1	13.1	13.5	14.1	14.0	14.5	14.8	14.9	15.0	14.6
80°	4.2	5.0	4.4	5.2	5.5	5.1	5.8	5.2	5.7	5.2	5.6
85°	1.4	1.4	1.4	1.5	1.6	1.6	1.6	1.6	1.7	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°	398.6	398.6	398.6	398.6	398.6	398.6
5°	396.8	396.8	396.8	396.6	396.5	396.4
10°	391.3	391.0	390.9	390.4	390.6	390.4
15°	381.6	380.8	380.5	379.9	380.3	380.3
20°	367.5	366.2	365.6	364.7	365.5	365.5
25°	348.5	346.4	345.4	344.1	345.3	345.6
30°	324.3	321.3	319.6	317.8	319.5	320.1
35°	294.7	290.8	288.2	286.2	288.4	289.1
40°	260.6	255.9	252.3	249.9	252.8	254.1
45°	223.0	217.7	213.3	210.8	214.5	216.1
50°	184.6	179.2	174.1	171.9	176.4	178.3
55°	144.6	138.6	133.7	131.5	136.2	137.9
60°	101.6	96.1	91.9	90.2	94.7	96.3
65°	63.5	58.8	56.3	54.9	57.9	59.3
70°	32.4	29.6	28.7	28.0	29.0	29.7
75°	13.8	12.9	12.9	12.4	12.7	12.6
80°	5.0	4.5	5.0	4.3	4.8	4.2
85°	1.6	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



Report Generated By 670255532 / DESKTOP-KHEM71S





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









(END OF REPORT)