

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: P600886

Luminaire Tested: LTB6089FS351EWHDMR

Issue Date: 7/27/2022

Test Information

Test Method: LM-79-2019
Report Number: P600886
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 3000K
Light Source: -
Ballast/Driver: -

Summary

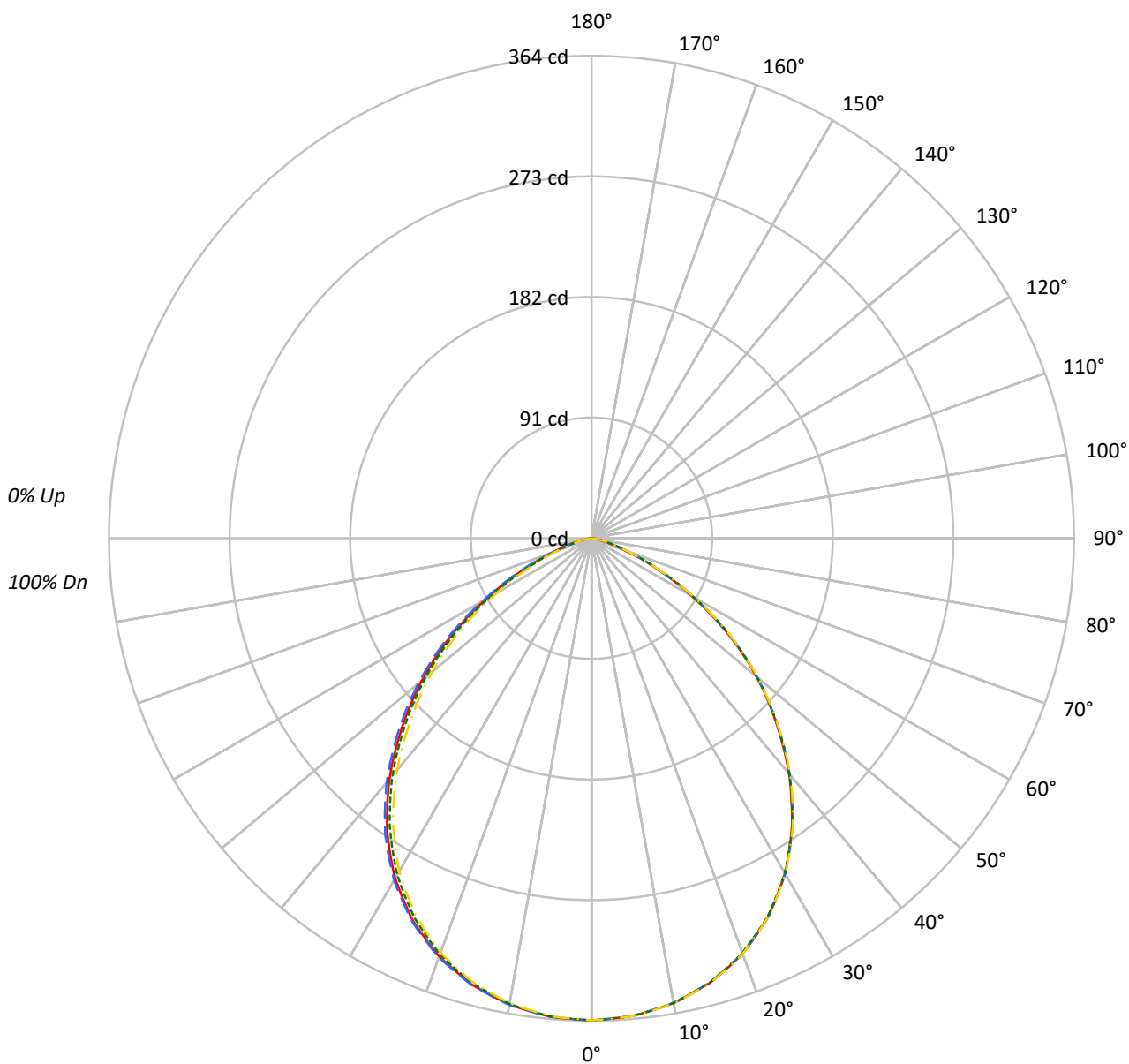
Lumens per Lamp: 762.88 (1 lamp)
Luminaire Lumens: 783.3 lumens
Efficiency: 102.7%
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	122	122	122	122	119	119	119	119	114	114	114	109	109	109	105	105	105	103						103													
1	114	110	106	103	111	108	104	101	103	101	98	99	97	95	96	94	93	91						91													
2	105	98	92	87	103	96	91	86	93	88	84	89	86	82	86	83	81	79						79													
3	97	88	80	75	95	86	79	74	83	77	73	80	76	71	78	74	70	68						68													
4	90	79	71	65	87	77	70	64	75	68	63	73	67	62	70	66	62	60						60													
5	83	71	63	57	81	70	62	56	68	61	56	66	60	55	64	59	55	53						53													
6	77	64	56	50	75	63	56	50	62	55	49	60	54	49	58	53	49	47						47													
7	72	59	50	45	70	58	50	44	56	49	44	55	49	44	54	48	44	42						42													
8	67	54	46	40	65	53	45	40	52	45	40	51	44	40	49	44	39	38						38													
9	63	50	42	36	61	49	41	36	48	41	36	47	41	36	46	40	36	34						34													
10	59	46	38	33	57	45	38	33	44	38	33	44	37	33	43	37	33	31						31													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19938	19938	19938	19938
5°	19904	19904	19932	19921
10°	19828	19823	19884	19856
15°	19694	19671	19784	19716
20°	19456	19421	19590	19491
25°	19072	19035	19265	19114
30°	18484	18459	18750	18553
35°	17654	17668	17996	17755
40°	16588	16631	16968	16710
45°	15288	15358	15684	15397
50°	13876	13927	14234	13944
55°	12023	12157	12482	12090
60°	9626	9769	10076	9615
65°	7018	7212	7524	6966
70°	4344	4600	4889	4328
75°	2436	2711	2881	2499
80°	1231	1578	1642	1294
85°	818	881	943	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 225°
 Vertical Angle: 45°
 Luminance: 15963 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	34.4	4.4	4.5
10°-20°	97.9	12.5	12.8
20°-30°	145.3	18.5	19.0
30°-40°	165.5	21.1	21.7
40°-50°	153.4	19.6	20.1
50°-60°	113.3	14.5	14.9
60°-70°	56.3	7.2	7.4
70°-80°	15.2	1.9	2.0
80°-90°	2.0	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°	277.6	35.4	36.4
0°-40°	443.1	56.6	58.1
0°-60°	709.8	90.6	93.0
0°-90°	783.3	100.0	102.7
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°	783.3	100.0	102.7

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	364	364	364	364	364	
5°	362	362	362	362	362	34
15°	347	347	349	347	347	98
25°	315	315	318	316	315	145
35°	264	264	269	265	264	165
45°	197	198	202	199	197	152
55°	126	127	131	126	126	112
65°	54	56	58	54	54	55
75°	12	13	14	12	12	14
85°	1	1	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°	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7
5°	361.7	361.7	361.6	361.6	361.7	361.8	361.8	362.0	362.2	362.2	362.3
10°	356.2	356.3	356.0	356.1	356.1	356.1	356.4	356.8	357.2	357.4	357.5
15°	347.0	347.2	346.7	346.5	346.6	346.5	347.1	347.6	348.6	348.8	349.0
20°	333.5	333.9	333.2	333.2	332.9	332.6	333.6	334.3	335.8	336.2	336.5
25°	315.3	316.0	315.2	315.0	314.7	314.1	315.4	316.3	318.5	319.0	319.5
30°	292.0	293.2	292.3	292.0	291.6	291.0	292.4	293.5	296.2	297.1	297.9
35°	263.8	265.5	264.5	264.3	264.0	263.2	264.8	265.8	268.9	270.0	271.4
40°	231.8	233.6	232.6	232.6	232.4	231.6	233.2	233.9	237.1	238.6	240.3
45°	197.2	199.1	198.0	198.1	198.1	197.2	198.7	199.2	202.3	203.8	205.9
50°	162.7	164.5	163.2	163.2	163.3	162.4	163.9	164.1	166.9	168.4	170.6
55°	125.8	127.8	126.6	126.9	127.2	126.4	127.9	127.8	130.6	131.9	134.2
60°	87.8	89.5	88.4	88.6	89.1	88.3	89.7	89.5	91.9	92.9	94.7
65°	54.1	55.7	54.9	55.1	55.6	55.0	56.3	56.2	58.0	58.5	59.9
70°	27.1	28.3	28.0	28.2	28.7	28.4	29.3	29.5	30.5	30.8	31.2
75°	11.5	11.9	11.9	12.3	12.8	12.8	13.2	13.5	13.6	13.7	13.3
80°	3.9	4.5	4.0	4.7	5.0	4.6	5.3	4.7	5.2	4.7	5.1
85°	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.5
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	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°	363.7	363.7	363.7	363.7	363.7	363.7
5°	362.1	362.0	362.0	361.8	361.8	361.7
10°	357.0	356.7	356.6	356.2	356.3	356.2
15°	348.2	347.4	347.2	346.6	347.0	347.0
20°	335.3	334.1	333.5	332.7	333.5	333.5
25°	318.0	316.0	315.1	313.9	315.0	315.3
30°	295.9	293.1	291.6	290.0	291.5	292.0
35°	268.9	265.3	263.0	261.1	263.1	263.8
40°	237.7	233.5	230.2	228.0	230.6	231.8
45°	203.4	198.6	194.6	192.3	195.7	197.2
50°	168.4	163.5	158.9	156.9	161.0	162.7
55°	131.9	126.5	122.0	120.0	124.3	125.8
60°	92.7	87.7	83.8	82.3	86.4	87.8
65°	58.0	53.7	51.4	50.1	52.8	54.1
70°	29.6	27.0	26.2	25.5	26.5	27.1
75°	12.6	11.8	11.7	11.4	11.6	11.5
80°	4.5	4.1	4.5	3.9	4.3	3.9
85°	1.4	1.3	1.3	1.3	1.3	1.3
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	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0
165°	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
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)