

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: P600894

Luminaire Tested: LTB4069FS351EWHDMR

Issue Date: 7/27/2022

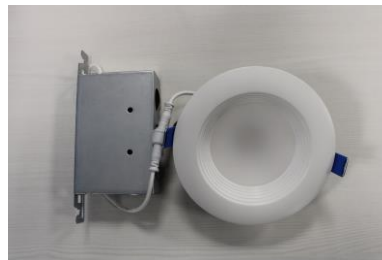
Test Information

Test Method: LM-79-2019
Report Number: P600894
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: LTB4069FS351EWHDMR
Description: 4' Fixture at 5000K
Light Source: -
Ballast/Driver: -

Summary

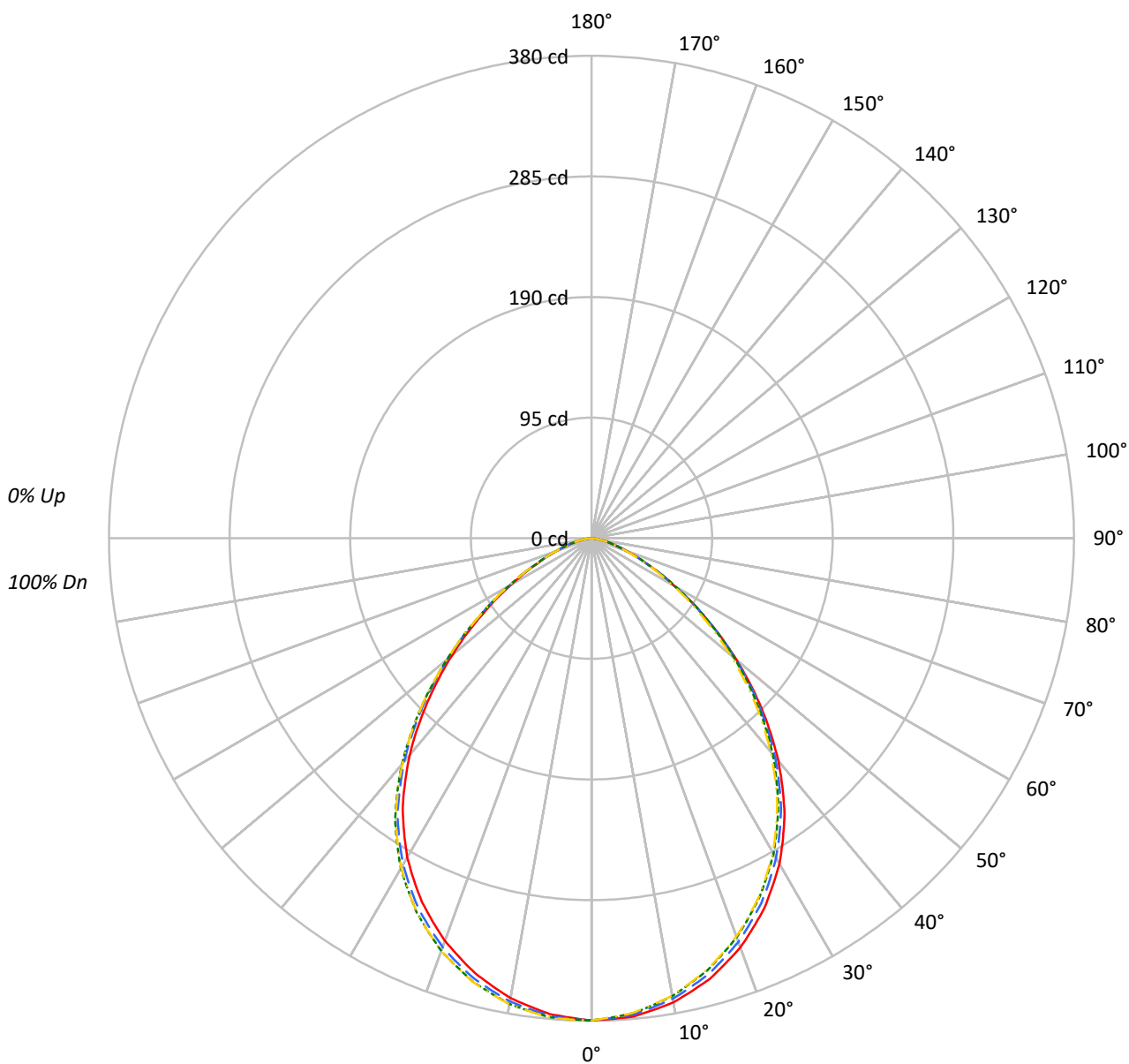
Lumens per Lamp: 623.78 (1 lamp)
Luminaire Lumens: 759.4 lumens
Efficiency: 121.7%
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.22
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.6
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



TEST NUMBER: P600894
CATALOG NUMBER: LTB4069FS351EWHDMR

Luminous Intensity Polar Plot





TEST NUMBER: P600894
 CATALOG NUMBER: LTB4069FS351EWHDMR

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	145	145	145	145	142	142	142	142	135	135	135	130	130	130	124	124	124	122						122													
1	135	130	126	122	132	128	124	120	123	119	117	118	115	113	114	112	110	107						107													
2	125	116	110	104	122	114	108	102	110	105	100	106	102	98	103	99	96	93						93													
3	115	104	96	89	113	103	95	88	99	92	87	96	90	85	93	88	84	82						82													
4	107	94	85	78	104	92	84	77	90	82	76	87	80	75	84	79	74	72						72													
5	99	85	75	68	97	84	75	68	81	73	67	79	72	66	77	71	66	63						63													
6	92	77	68	61	90	76	67	60	74	66	60	72	65	59	70	64	59	57						57													
7	86	71	61	54	84	70	61	54	68	60	54	66	59	53	65	58	53	51						51													
8	80	65	56	49	78	64	55	49	63	54	49	61	54	48	60	53	48	46						46													
9	75	60	51	45	73	59	50	44	58	50	44	57	49	44	56	49	44	42						42													
10	71	56	47	41	69	55	46	41	54	46	40	53	45	40	52	45	40	38						38													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	47798	47798	47798	47798
5°	47766	47437	47526	47841
10°	47436	46797	46989	47589
15°	46826	45901	46201	47087
20°	45923	44785	45187	46312
25°	44685	43394	43880	45185
30°	43014	41663	42172	43625
35°	40728	39407	39822	41420
40°	37605	36455	36586	38147
45°	33691	32837	32534	33905
50°	29192	28722	27978	29094
55°	24179	24113	23060	23894
60°	19205	19280	18273	18827
65°	14532	14592	13966	14264
70°	10781	10560	10487	10744
75°	8072	7780	7974	8266
80°	5508	5146	5508	5870
85°	3466	2599	3466	4332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 292.5°
 Vertical Angle: 45°
 Luminance: 34172 cd/sqm



TEST NUMBER: P600894
 CATALOG NUMBER: LTB4069FS351EWHDMR

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	35.8	4.7	5.7
10°-20°	100.5	13.2	16.1
20°-30°	146.6	19.3	23.5
30°-40°	163.5	21.5	26.2
40°-50°	143.9	19.0	23.1
50°-60°	97.9	12.9	15.7
60°-70°	49.5	6.5	7.9
70°-80°	18.3	2.4	2.9
80°-90°	3.4	0.4	0.5
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°	282.9	37.3	45.4
0°-40°	446.4	58.8	71.6
0°-60°	688.2	90.6	110.3
0°-90°	759.4	100.0	121.7
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°	759.4	100.0	121.7

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	380	380	380	380	380	
5°	378	376	376	379	378	36
15°	359	352	355	361	359	101
25°	322	312	316	325	322	148
35°	265	256	259	270	265	165
45°	189	184	183	190	189	146
55°	110	110	105	109	110	99
65°	49	49	47	48	49	50
75°	17	16	16	17	17	18
85°	2	2	2	3	2	3
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



TEST NUMBER: P600894
 CATALOG NUMBER: LTB4069FS351EWHDMR

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8
5°	378.1	377.6	376.7	376.0	375.5	375.2	375.3	375.6	376.2	376.8	377.6
10°	371.2	370.1	368.4	367.3	366.2	365.4	365.8	366.2	367.7	368.8	370.4
15°	359.4	358.0	355.6	353.8	352.3	351.2	351.8	352.4	354.6	356.5	358.8
20°	342.9	341.4	338.3	336.3	334.4	333.0	333.7	334.7	337.4	339.7	342.7
25°	321.8	320.1	316.8	314.6	312.5	310.9	311.7	312.7	316.0	318.6	322.1
30°	296.0	294.3	290.8	288.7	286.7	284.9	285.7	286.6	290.2	292.8	296.8
35°	265.1	263.7	260.3	258.5	256.5	254.4	255.1	255.5	259.2	262.1	266.4
40°	228.9	228.1	225.1	223.6	221.9	219.3	219.5	219.0	222.7	225.3	229.4
45°	189.3	189.5	187.1	186.1	184.5	181.6	181.1	179.7	182.8	184.8	188.5
50°	149.1	150.1	148.4	147.8	146.7	143.7	142.3	140.3	142.9	144.4	147.4
55°	110.2	111.7	110.6	110.6	109.9	107.0	105.4	103.3	105.1	106.0	108.4
60°	76.3	77.7	76.8	77.0	76.6	74.3	73.2	71.5	72.6	72.9	74.7
65°	48.8	49.8	48.9	49.2	49.0	47.3	47.3	46.2	46.9	46.7	48.1
70°	29.3	29.4	28.9	28.7	28.7	28.2	28.3	28.1	28.5	28.5	29.1
75°	16.6	16.6	16.0	15.9	16.0	15.9	16.1	16.0	16.4	16.5	17.0
80°	7.6	7.5	7.1	7.1	7.1	7.0	7.2	7.2	7.6	7.7	8.1
85°	2.4	2.3	2.0	1.7	1.8	1.9	2.0	2.2	2.4	2.6	3.0
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



TEST NUMBER: P600894
 CATALOG NUMBER: LTB4069FS351EWHDMR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	379.8	379.8	379.8	379.8	379.8	379.8
5°	378.3	378.7	379.1	378.9	378.7	378.1
10°	371.6	372.4	373.1	372.7	372.4	371.2
15°	360.2	361.4	362.3	361.7	361.1	359.4
20°	344.3	345.8	346.8	345.8	345.2	342.9
25°	324.0	325.4	326.5	325.3	324.4	321.8
30°	298.7	300.2	301.3	299.7	298.9	296.0
35°	268.3	269.6	270.9	268.8	268.2	265.1
40°	231.0	232.2	233.6	231.7	231.5	228.9
45°	189.6	190.5	192.0	190.5	191.1	189.3
50°	148.0	148.6	150.0	148.9	150.0	149.1
55°	108.7	108.9	110.3	109.2	110.6	110.2
60°	74.8	74.8	76.0	75.2	76.4	76.3
65°	48.0	47.9	48.9	48.3	49.3	48.8
70°	29.3	29.2	29.5	29.4	29.6	29.3
75°	17.1	17.0	17.3	17.0	17.1	16.6
80°	8.2	8.1	8.3	8.0	8.0	7.6
85°	3.1	3.0	3.1	2.9	2.8	2.4
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	0.0	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

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)