

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: P600889

Luminaire Tested: LTB3059FS351EWHDMR

Issue Date: 7/27/2022

Test Information

Test Method: LM-79-2019
Report Number: P600889
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: LTB3059FS351EWHDMR
Description: 3' Fixture at 3000K
Light Source: -
Ballast/Driver: -

Summary

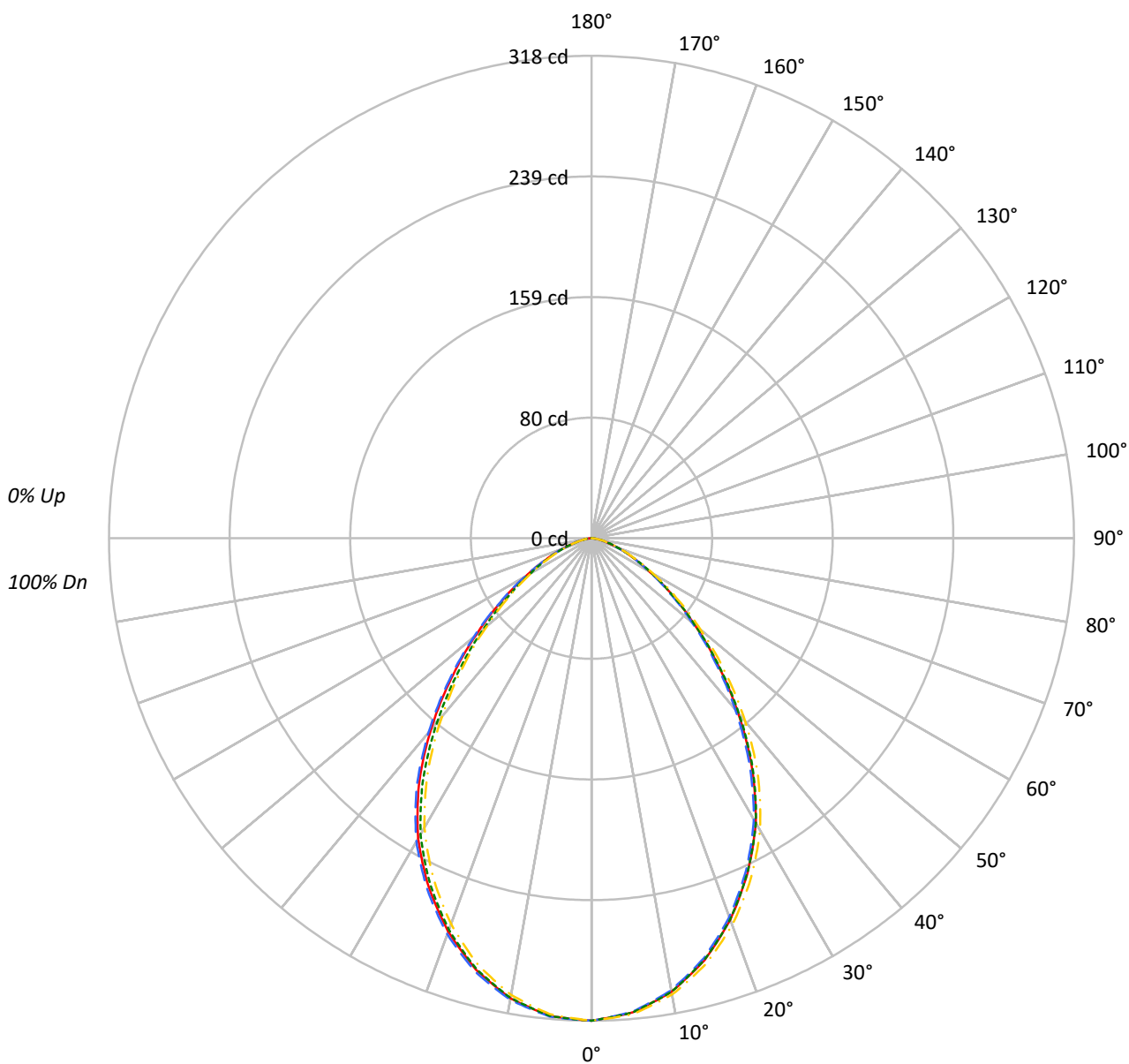
Lumens per Lamp: 532.81 (1 lamp)
Luminaire Lumens: 546.3 lumens
Efficiency: 102.5%
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.07 / 1.13
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 6.6
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



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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	107	104	111	108	105	102	104	101	99	100	98	96	96	95	93	91						91													
2	106	99	93	89	103	97	92	88	94	89	86	90	87	84	87	84	82	80						80													
3	98	89	82	77	96	88	81	76	85	79	75	82	77	74	80	76	72	70						70													
4	91	81	73	67	89	79	72	67	77	71	66	75	69	65	73	68	64	62						62													
5	85	73	65	60	83	72	65	59	70	64	59	68	63	58	67	62	58	56						56													
6	79	67	59	53	77	66	59	53	64	58	53	63	57	52	61	56	52	50						50													
7	74	62	54	48	72	61	53	48	59	53	48	58	52	47	57	51	47	45						45													
8	69	57	49	44	68	56	49	44	55	48	43	54	48	43	53	47	43	41						41													
9	65	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	38						38													
10	61	49	42	37	60	48	41	37	47	41	36	47	41	36	46	40	36	35						35													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	69731	69731	69731	69731
5°	69051	69051	69557	69557
10°	67578	67578	68558	68491
15°	65358	65313	66811	66675
20°	62422	62375	64406	64102
25°	58890	58842	61407	60874
30°	54844	54844	57857	57047
35°	49336	49603	53110	51772
40°	42966	43281	47117	45285
45°	36469	36717	40531	38361
50°	30225	30396	33875	31624
55°	24544	24697	27564	25576
60°	19604	19867	21928	20437
65°	15462	15670	17019	16137
70°	11989	12182	13015	12502
75°	8642	9065	9574	9065
80°	6566	6945	7324	6819
85°	4026	4529	5032	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 225°
 Vertical Angle: 45°
 Luminance: 41183 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	29.8	5.4	5.6
10°-20°	81.7	15.0	15.3
20°-30°	113.9	20.9	21.4
30°-40°	118.5	21.7	22.2
40°-50°	95.2	17.4	17.9
50°-60°	61.0	11.2	11.4
60°-70°	31.6	5.8	5.9
70°-80°	12.2	2.2	2.3
80°-90°	2.5	0.5	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°	225.4	41.3	42.3
0°-40°	343.9	62.9	64.5
0°-60°	500.0	91.5	93.9
0°-90°	546.3	100.0	102.5
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°	546.3	100.0	102.5

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	318	318	318	318	318	
5°	314	314	316	316	314	30
15°	288	288	294	294	288	81
25°	243	243	254	252	243	112
35°	184	185	198	193	184	115
45°	118	118	131	124	118	91
55°	64	65	72	67	64	58
65°	30	30	33	31	30	30
75°	10	11	11	11	10	12
85°	2	2	2	2	2	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



TEST NUMBER: P600889
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0
5°	313.7	313.5	313.2	313.3	313.7	314.0	314.8	315.3	316.0	316.3	316.5
10°	303.5	303.2	302.5	302.8	303.5	304.0	305.5	306.5	307.9	308.4	308.9
15°	287.9	287.4	286.4	286.8	287.7	288.5	290.7	292.2	294.3	295.0	295.8
20°	267.5	267.0	265.6	266.1	267.3	268.3	271.2	273.2	276.0	276.9	277.8
25°	243.4	242.7	241.2	241.8	243.2	244.6	248.1	250.4	253.8	254.7	255.8
30°	216.6	215.7	214.0	214.9	216.6	218.3	222.2	224.8	228.5	229.6	230.8
35°	184.3	183.3	181.5	182.8	185.3	187.2	191.4	194.2	198.4	199.7	201.0
40°	150.1	149.1	147.4	148.7	151.2	153.2	157.6	160.3	164.6	165.8	166.9
45°	117.6	116.8	115.2	116.2	118.4	120.2	124.3	126.8	130.7	131.8	132.8
50°	88.6	88.1	86.6	87.4	89.1	90.5	93.9	96.0	99.3	100.2	101.0
55°	64.2	63.9	62.8	63.3	64.6	65.5	68.0	69.5	72.1	72.7	73.2
60°	44.7	44.9	43.9	44.4	45.3	45.5	47.2	48.2	50.0	50.3	50.5
65°	29.8	29.8	29.4	29.6	30.2	30.4	31.2	31.9	32.8	33.0	32.9
70°	18.7	18.6	18.3	18.6	19.0	19.1	19.6	19.8	20.3	20.2	20.3
75°	10.2	10.3	10.1	10.3	10.7	10.6	10.9	10.9	11.3	11.2	11.4
80°	5.2	5.3	5.2	5.3	5.5	5.5	5.6	5.6	5.8	5.7	5.8
85°	1.6	1.6	1.6	1.6	1.8	1.8	1.9	1.9	2.0	1.9	2.0
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



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	318.0	318.0	318.0	318.0	318.0	318.0
5°	316.3	316.0	315.7	314.9	314.4	313.7
10°	308.3	307.6	306.9	305.6	304.8	303.5
15°	294.9	293.7	292.5	290.5	289.5	287.9
20°	276.5	274.7	273.2	270.6	269.5	267.5
25°	254.1	251.6	249.6	246.8	245.6	243.4
30°	228.7	225.3	222.9	220.2	219.1	216.6
35°	197.9	193.4	190.6	188.0	187.3	184.3
40°	163.6	158.2	155.1	153.1	152.9	150.1
45°	129.3	123.7	121.0	119.5	119.9	117.6
50°	97.5	92.7	90.7	89.6	90.3	88.6
55°	70.3	66.9	65.7	64.7	65.3	64.2
60°	48.6	46.6	46.1	45.2	45.7	44.7
65°	32.1	31.1	30.8	30.3	30.2	29.8
70°	20.0	19.5	19.4	19.0	19.0	18.7
75°	11.1	10.7	10.8	10.5	10.5	10.2
80°	5.7	5.4	5.5	5.3	5.4	5.2
85°	1.9	1.8	1.8	1.7	1.7	1.6
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)