

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P731151

Luminaire Tested: **HBLED-LD5-60HE-W-FLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-W-FLI-UNV-L740
Description: 60000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57862.0 lumens
Efficiency: N/A
Efficacy: 163.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

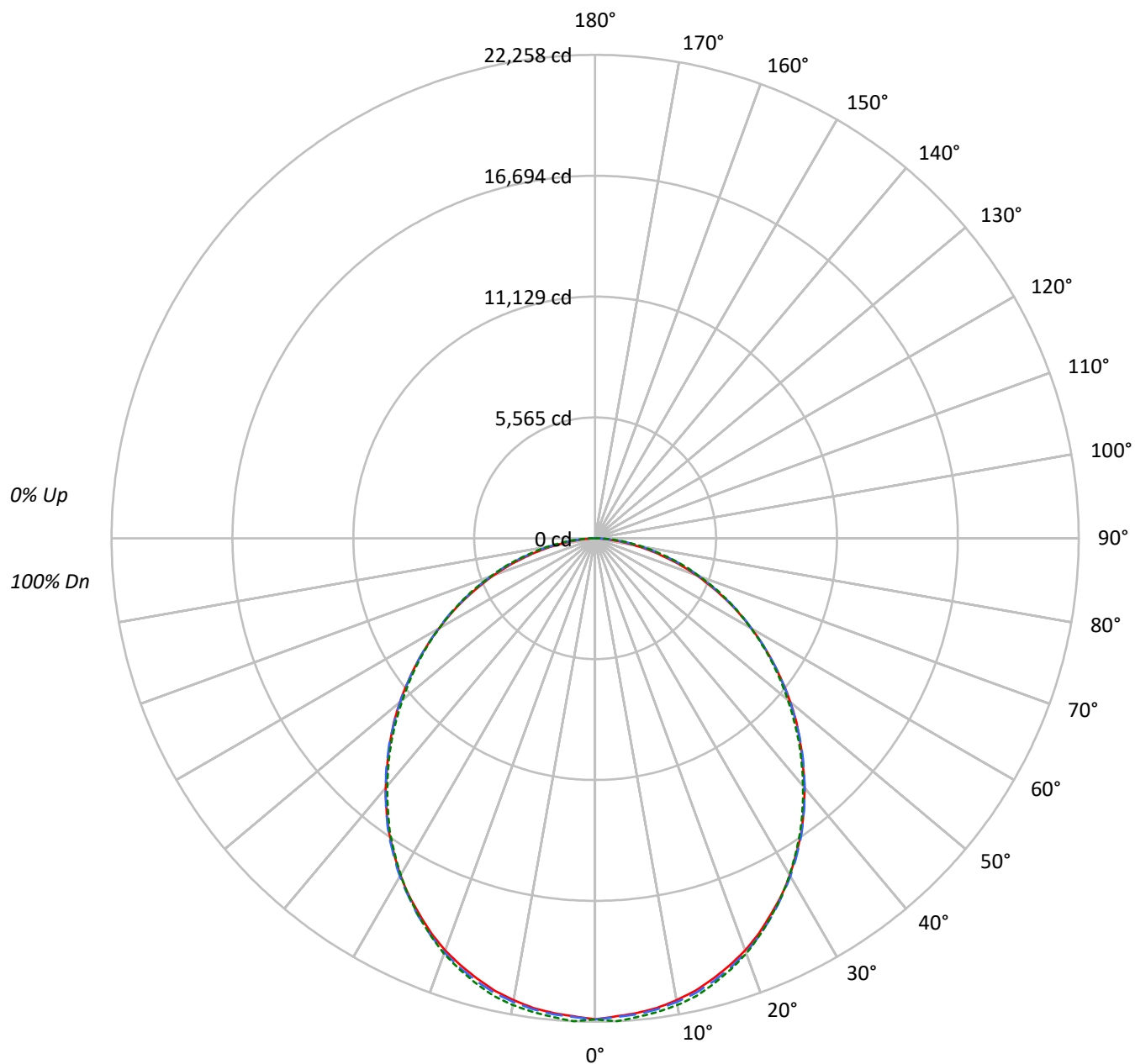
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35765	35765	35765
5°	35561	35662	35865
10°	35400	35543	35774
15°	35089	35280	35452
20°	34691	34858	34960
25°	34049	34243	34193
30°	33422	33511	33375
35°	32594	32677	32469
40°	31614	31614	31371
45°	30509	30592	30280
50°	29460	29411	29043
55°	28185	28189	27935
60°	26820	26852	26748
65°	25278	25531	25595
70°	23347	23987	24013
75°	20633	21969	22312
80°	16923	19240	20328
85°	11743	16154	18266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2095.0	3.6
10°-20°	5959.7	10.3
20°-30°	8856.5	15.3
30°-40°	10355.5	17.9
40°-50°	10324.7	17.8
50°-60°	8958.1	15.5
60°-70°	6616.6	11.4
70°-80°	3704.5	6.4
80°-90°	988.4	1.7
90°-100°	3.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	16911.1	29.2
0°-40°	27266.7	47.1
0°-60°	46549.5	80.4
0°-90°	57859.0	100.0
90°-120°	3.0	0.0
90°-150°	3.0	0.0
90°-180°	3.0	0.0
0°-180°	57862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22151	22151	22151	22151	22151	
5°	21941	22080	22003	22100	22129	###
15°	20992	21138	21106	21208	21209	5920
25°	19113	19266	19221	19263	19193	8812
35°	16536	16681	16579	16576	16473	10329
45°	13361	13504	13398	13343	13261	10314
55°	10013	10082	10014	9997	9924	8954
65°	6616	6681	6683	6717	6700	6544
75°	3308	3406	3522	3547	3577	3522
85°	634	766	872	949	986	770
90°	0	14	17	38	35	26
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	



TEST NUMBER: P731151

CATALOG NUMBER: HBLED-LD5-60HE-W-FLI-UNV-L740

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22151.2	22151.2	22151.2	22151.2	22151.2
2.5°	22030.1	22161.2	22069.5	22156.9	22258.4
5°	21941.3	22079.5	22003.2	22100.4	22128.7
7.5°	21811.8	21945.7	21872.4	21969.6	21999.2
10°	21591.9	21737.2	21679.4	21789.3	21820.3
12.5°	21335.6	21472.2	21434.2	21562.3	21583.5
15°	20991.9	21138.5	21106.0	21207.5	21208.9
17.5°	20611.6	20749.5	20725.6	20804.6	20801.6
20°	20190.5	20338.2	20287.7	20373.5	20346.6
22.5°	19691.8	19849.5	19786.0	19857.9	19790.3
25°	19112.7	19266.4	19221.3	19263.4	19193.1
27.5°	18552.1	18693.0	18599.9	18650.6	18576.0
30°	17926.6	18046.3	17974.6	17991.5	17901.3
32.5°	17223.7	17366.0	17278.5	17275.8	17180.0
35°	16536.3	16681.3	16578.6	16575.7	16473.0
37.5°	15775.6	15910.8	15789.7	15796.8	15677.0
40°	14999.4	15116.4	14999.4	14993.7	14884.0
42.5°	14157.0	14312.0	14205.0	14217.5	14071.2
45°	13361.3	13503.5	13397.9	13342.8	13261.1
47.5°	12568.2	12630.1	12542.7	12528.6	12413.2
50°	11728.5	11774.9	11708.7	11691.9	11562.4
52.5°	10860.9	10941.2	10856.5	10834.0	10748.2
55°	10012.7	10081.7	10014.1	9997.3	9923.9
57.5°	9159.2	9249.3	9180.3	9163.2	9104.3
60°	8305.6	8332.2	8315.4	8340.6	8283.1
62.5°	7457.5	7519.4	7539.2	7532.1	7487.1
65°	6616.4	6681.3	6682.7	6716.6	6699.5
67.5°	5755.8	5840.2	5864.4	5899.4	5914.9
70°	4945.7	5010.6	5081.2	5102.1	5086.6
72.5°	4130.1	4234.4	4313.4	4331.6	4397.8
75°	3307.5	3406.1	3521.7	3547.0	3576.6
77.5°	2544.1	2675.0	2779.2	2813.2	2849.8
80°	1820.1	1965.0	2069.3	2115.7	2186.3
82.5°	1194.5	1342.5	1448.1	1494.5	1580.6
85°	633.9	766.4	872.0	949.4	986.0
87.5°	187.3	300.0	360.5	383.1	415.6
90°	0.0	14.1	16.8	38.0	35.3
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: HBLED-LD5-60HE-W-FLI-UNV-L740

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)