

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: P730535

Luminaire Tested: **HBLED-LD5-18HE-N-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-UNV-L835
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17840.0 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

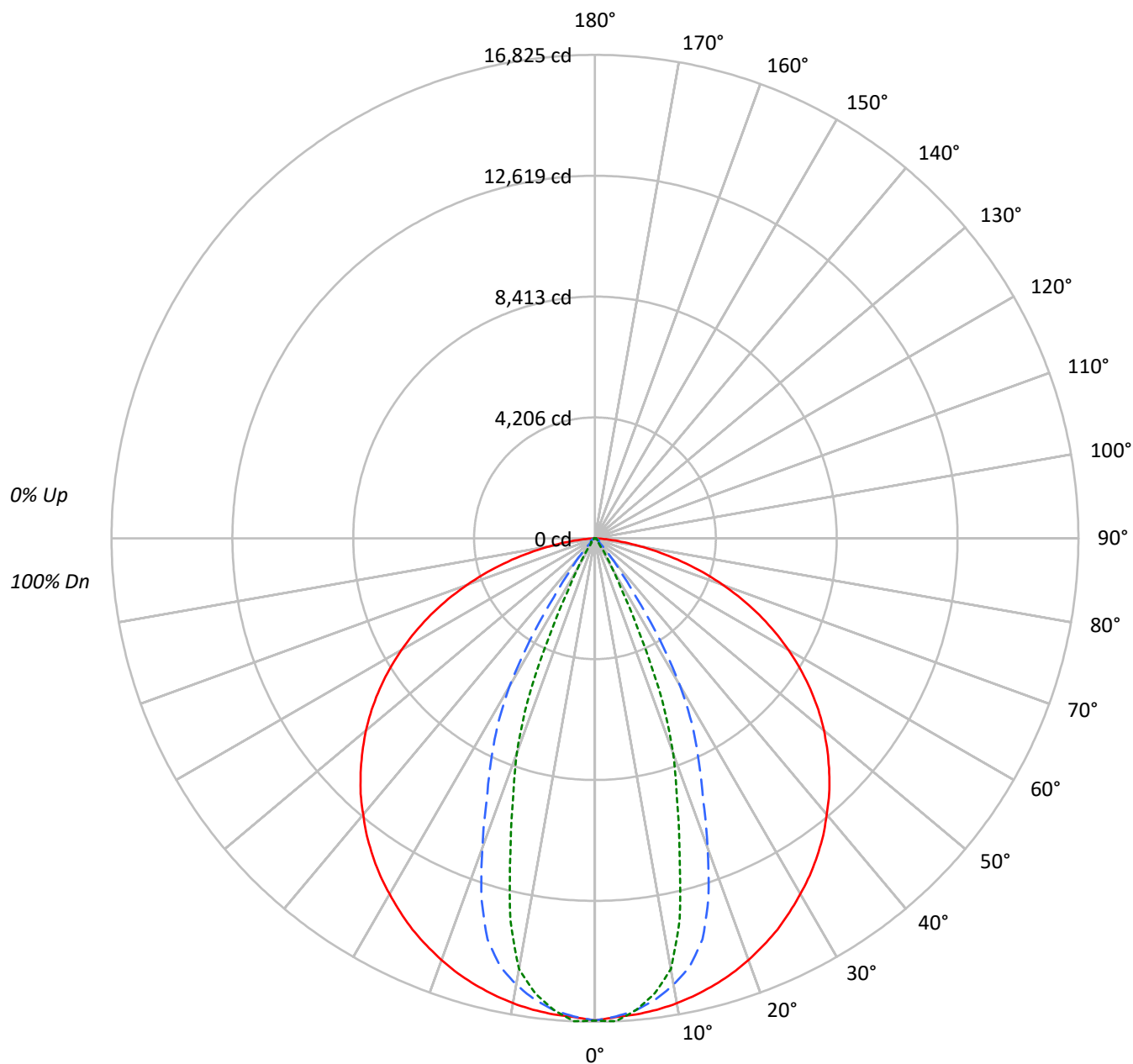
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81
4	92	82	76	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70
6	81	70	63	58	79	70	63	58	68	62	58		66	61	57		65
7	76	66	58	54	75	65	58	53	63	57	53		62	57	53		61
8	72	61	54	49	71	61	54	49	59	53	49		58	53	49		57
9	68	57	51	46	67	57	50	46	56	50	46		55	49	46		54
10	65	54	47	43	64	53	47	43	53	47	43		52	46	43		51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27100	27100	27100
5°	26955	26717	26706
10°	26939	25861	24954
15°	26900	24160	18991
20°	26838	19695	13670
25°	26770	15229	6734
30°	26651	11068	2184
35°	26588	4910	562
40°	26449	1994	379
45°	26331	560	403
50°	26126	397	447
55°	25749	472	191
60°	25114	526	116
65°	24081	335	138
70°	22371	298	170
75°	19571	225	234
80°	14633	275	335
85°	7249	354	443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1557.6	8.7
10°-20°	3894.9	21.8
20°-30°	4218.8	23.6
30°-40°	3124.2	17.5
40°-50°	2250.2	12.6
50°-60°	1393.3	7.8
60°-70°	856.9	4.8
70°-80°	451.7	2.5
80°-90°	92.5	0.5
90°-100°	0.0	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°	9671.3	54.2
0°-40°	12795.4	71.7
0°-60°	16439.0	92.1
0°-90°	17840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16785	16785	16785	16785	16785	
5°	16631	16693	16484	16496	16477	###
15°	16093	15720	14454	12292	11362	4543
25°	15026	13764	8548	5378	3780	6924
35°	13489	9510	2491	586	285	8439
45°	11532	5358	245	177	176	8893
55°	9147	1104	168	152	68	8166
65°	6303	117	88	56	36	6219
75°	3137	27	36	47	38	3314
85°	391	10	19	29	24	591
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16784.7	16784.7	16784.7	16784.7	16784.7
2.5°	16676.9	16783.1	16657.8	16751.2	16825.4
5°	16631.4	16692.9	16484.5	16496.4	16477.3
7.5°	16551.5	16537.2	16186.6	16033.3	15966.3
10°	16431.0	16335.9	15773.9	15453.7	15220.5
12.5°	16275.3	16062.9	15258.8	14240.8	13608.4
15°	16093.2	15719.5	14453.9	12291.7	11361.5
17.5°	15876.0	15346.6	13138.0	10301.9	9471.5
20°	15619.7	14930.6	11462.8	8764.8	7956.0
22.5°	15333.8	14424.4	9835.6	7284.5	6130.7
25°	15026.4	13764.1	8548.4	5377.7	3780.0
27.5°	14671.1	12915.3	7341.2	3167.6	1929.1
30°	14295.1	11893.2	5936.6	1703.9	1171.4
32.5°	13915.8	10734.6	4200.8	1064.4	664.3
35°	13489.4	9509.8	2491.2	586.1	285.1
37.5°	13044.6	8387.2	1472.4	266.7	182.9
40°	12548.8	7361.1	946.2	177.2	179.6
42.5°	12069.7	6404.6	532.6	174.8	178.1
45°	11531.5	5357.7	245.1	177.2	176.5
47.5°	10975.0	4272.6	158.9	178.8	178.8
50°	10400.9	3055.0	158.1	182.9	178.1
52.5°	9794.9	1906.0	164.5	182.1	146.1
55°	9147.3	1103.5	167.7	151.7	67.9
57.5°	8476.6	650.7	169.3	87.0	38.3
60°	7777.1	360.1	162.9	64.7	36.0
62.5°	7056.1	171.7	128.5	60.7	35.1
65°	6303.1	116.6	87.8	55.9	36.0
67.5°	5521.4	90.2	69.4	52.7	36.7
70°	4738.9	67.0	63.1	52.7	36.0
72.5°	3943.7	45.5	52.7	53.5	36.0
75°	3137.2	27.2	36.0	47.1	37.5
77.5°	2337.9	16.7	27.9	48.7	45.5
80°	1573.8	14.4	29.6	45.5	36.0
82.5°	923.9	12.8	28.8	35.1	28.8
85°	391.3	10.4	19.1	28.8	23.9
87.5°	73.5	8.8	15.2	23.1	20.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)