

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: P730517

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-CL-UNV-L835
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16710.0 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

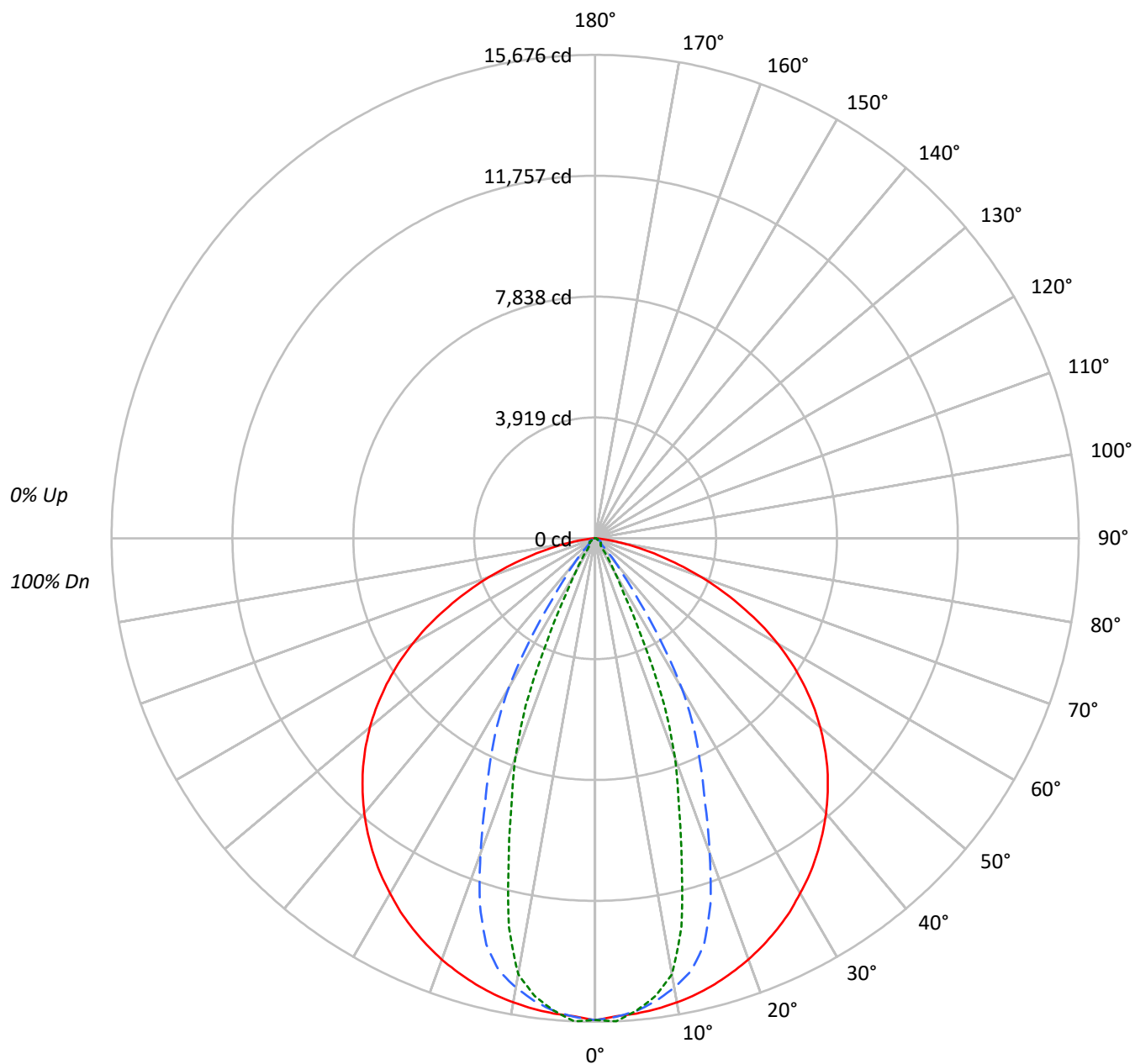
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90		
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51		
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25227	25227	25227
5°	25072	24941	24923
10°	25055	24251	23536
15°	25026	22805	18097
20°	24978	18662	12981
25°	24899	14379	6596
30°	24781	10494	2400
35°	24693	4819	835
40°	24541	2187	576
45°	24323	816	584
50°	23935	593	615
55°	23226	624	468
60°	22072	666	413
65°	20016	507	336
70°	17162	366	310
75°	13118	324	294
80°	8207	305	320
85°	2592	356	430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1454.6	8.7
10°-20°	3664.3	21.9
20°-30°	3990.6	23.9
30°-40°	2985.2	17.9
40°-50°	2146.4	12.8
50°-60°	1318.2	7.9
60°-70°	758.5	4.5
70°-80°	338.6	2.0
80°-90°	53.7	0.3
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°	9109.5	54.5
0°-40°	12094.6	72.4
0°-60°	15559.2	93.1
0°-90°	16710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15624	15624	15624	15624	15624	
5°	15469	15542	15388	15403	15377	###
15°	14972	14685	13643	11717	10826	4226
25°	13976	12974	8071	5178	3703	6443
35°	12528	8985	2445	719	424	7836
45°	10652	5048	357	265	256	8206
55°	8251	1049	222	214	166	7356
65°	5239	115	133	110	88	5186
75°	2103	70	52	54	47	2282
85°	140	14	19	25	23	279
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15624.3	15624.3	15624.3	15624.3	15624.3
2.5°	15515.6	15617.1	15531.5	15608.3	15676.2
5°	15469.2	15541.9	15388.4	15402.8	15377.3
7.5°	15389.2	15406.8	15129.4	15022.3	14970.3
10°	15282.1	15234.9	14792.0	14537.0	14355.5
12.5°	15147.0	14991.1	14372.2	13461.6	12918.7
15°	14971.9	14684.8	13643.1	11717.1	10826.3
17.5°	14763.2	14365.0	12435.8	9765.3	8994.6
20°	14537.0	14011.6	10861.5	8303.1	7554.7
22.5°	14269.9	13559.9	9308.8	6905.5	5878.1
25°	13976.5	12973.9	8071.2	5178.5	3702.6
27.5°	13659.9	12200.7	6925.4	3175.7	2002.0
30°	13292.1	11259.7	5628.6	1782.2	1287.2
32.5°	12933.1	10162.8	4020.8	1187.3	822.7
35°	12527.7	8985.1	2444.9	718.8	423.7
37.5°	12098.4	7914.5	1530.3	390.9	292.6
40°	11643.5	6899.1	1037.8	277.5	273.5
42.5°	11157.3	5980.4	650.0	263.8	272.6
45°	10652.1	5048.2	357.4	264.7	255.9
47.5°	10103.6	4036.0	249.5	250.2	249.5
50°	9528.8	2895.1	235.9	247.1	244.7
52.5°	8909.1	1797.4	236.7	241.4	216.7
55°	8251.1	1048.9	221.5	214.3	166.3
57.5°	7559.5	654.0	216.7	176.7	149.5
60°	6835.1	345.4	206.3	159.1	127.9
62.5°	6063.6	170.3	165.5	135.9	104.8
65°	5239.2	115.2	132.8	110.3	87.9
67.5°	4442.9	103.9	100.0	90.3	76.8
70°	3635.4	95.1	77.5	79.1	65.6
72.5°	2843.1	86.3	62.3	68.0	55.2
75°	2102.8	69.6	52.0	53.5	47.2
77.5°	1463.1	54.4	40.8	45.6	44.0
80°	882.7	34.4	32.8	37.6	34.4
82.5°	427.7	22.4	25.6	29.5	27.2
85°	139.9	13.6	19.2	24.8	23.2
87.5°	17.6	8.0	16.0	21.6	20.0
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)