

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: P730712

Luminaire Tested: **HBLED-LD5-24HE-W-FLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730712
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-LD5-24HE-W-FLI-UNV-L735
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22188.0 lumens
Efficiency: N/A
Efficacy: 155.2 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

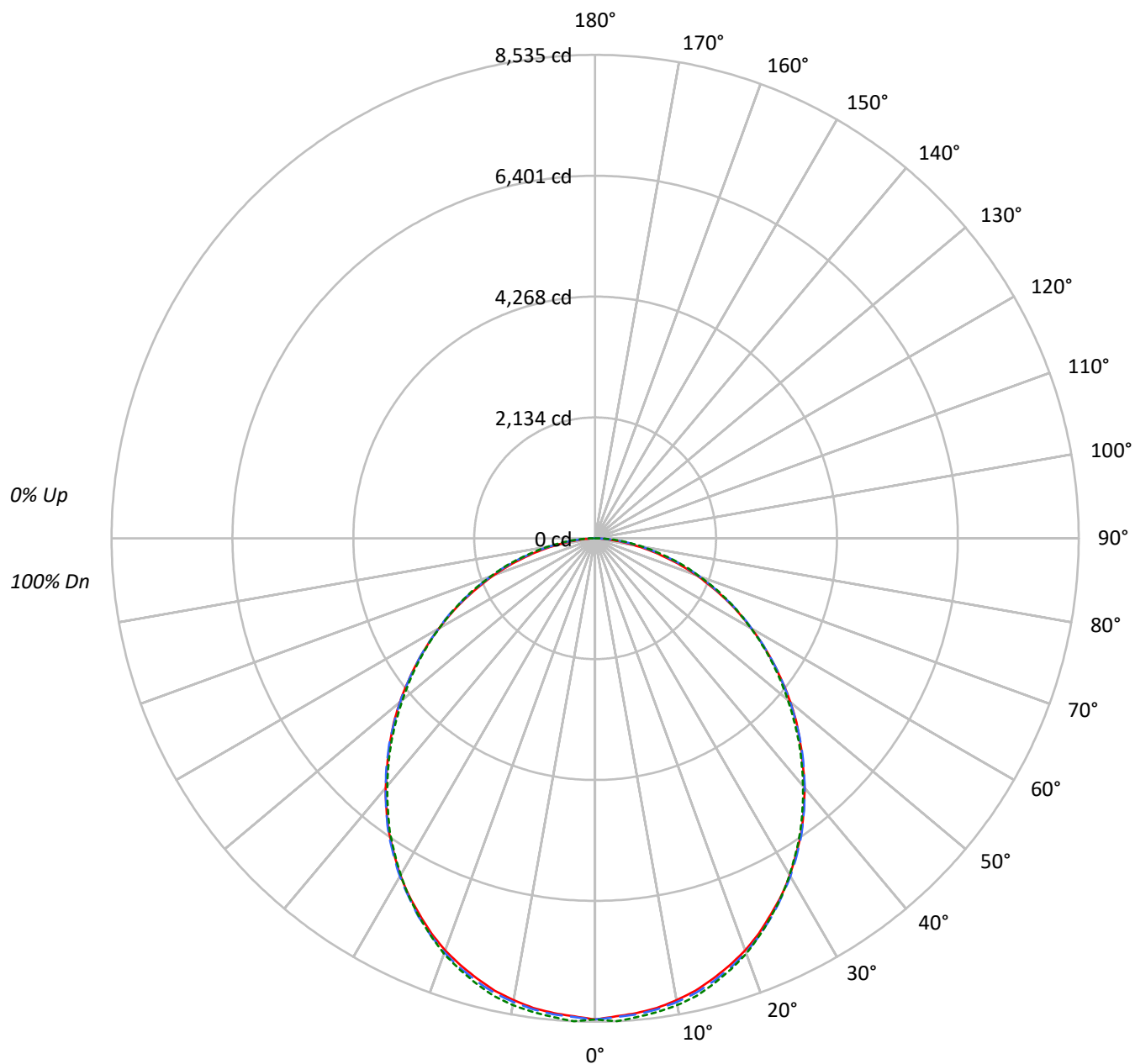
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13715	13715	13715
5°	13637	13675	13753
10°	13575	13630	13718
15°	13455	13528	13594
20°	13303	13367	13406
25°	13057	13131	13112
30°	12816	12850	12798
35°	12499	12531	12451
40°	12123	12123	12030
45°	11699	11731	11611
50°	11297	11278	11137
55°	10808	10809	10712
60°	10285	10297	10257
65°	9693	9790	9815
70°	8953	9198	9208
75°	7912	8425	8556
80°	6489	7378	7795
85°	4504	6195	7004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	803.3	3.6
10°-20°	2285.3	10.3
20°-30°	3396.1	15.3
30°-40°	3971.0	17.9
40°-50°	3959.2	17.8
50°-60°	3435.1	15.5
60°-70°	2537.2	11.4
70°-80°	1420.5	6.4
80°-90°	379.0	1.7
90°-100°	1.1	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°	6484.8	29.2
0°-40°	10455.8	47.1
0°-60°	17850.1	80.4
0°-90°	22186.9	100.0
90°-120°	1.1	0.0
90°-150°	1.1	0.0
90°-180°	1.0	0.0
0°-180°	22188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8494	8494	8494	8494	8494	
5°	8414	8467	8438	8475	8486	799
15°	8050	8106	8093	8132	8133	2270
25°	7329	7388	7371	7387	7360	3379
35°	6341	6397	6357	6356	6317	3961
45°	5124	5178	5138	5116	5085	3955
55°	3840	3866	3840	3834	3806	3433
65°	2537	2562	2563	2576	2569	2509
75°	1268	1306	1350	1360	1372	1351
85°	243	294	334	364	378	295
90°	0	5	6	15	14	10
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8494.2	8494.2	8494.2	8494.2	8494.2
2.5°	8447.8	8498.0	8462.9	8496.4	8535.3
5°	8413.7	8466.7	8437.5	8474.7	8485.5
7.5°	8364.1	8415.4	8387.3	8424.5	8435.9
10°	8279.7	8335.4	8313.3	8355.4	8367.3
12.5°	8181.5	8233.8	8219.2	8268.4	8276.5
15°	8049.7	8105.9	8093.4	8132.3	8132.8
17.5°	7903.8	7956.7	7947.5	7977.8	7976.7
20°	7742.3	7799.0	7779.6	7812.5	7802.2
22.5°	7551.1	7611.6	7587.2	7614.8	7588.9
25°	7329.0	7388.0	7370.7	7386.8	7359.9
27.5°	7114.1	7168.1	7132.4	7151.9	7123.2
30°	6874.2	6920.1	6892.6	6899.1	6864.5
32.5°	6604.7	6659.2	6625.7	6624.7	6587.9
35°	6341.1	6396.7	6357.3	6356.2	6316.8
37.5°	6049.4	6101.2	6054.8	6057.5	6011.6
40°	5751.7	5796.6	5751.7	5749.5	5707.5
42.5°	5428.7	5488.1	5447.1	5451.9	5395.8
45°	5123.6	5178.1	5137.6	5116.5	5085.1
47.5°	4819.5	4843.2	4809.7	4804.3	4760.0
50°	4497.5	4515.3	4489.9	4483.4	4433.8
52.5°	4164.7	4195.6	4163.1	4154.4	4121.5
55°	3839.5	3866.0	3840.0	3833.6	3805.5
57.5°	3512.2	3546.8	3520.3	3513.8	3491.2
60°	3184.9	3195.1	3188.7	3198.3	3176.3
62.5°	2859.7	2883.4	2891.0	2888.3	2871.0
65°	2537.2	2562.0	2562.6	2575.6	2569.0
67.5°	2207.1	2239.5	2248.8	2262.2	2268.1
70°	1896.5	1921.4	1948.4	1956.5	1950.5
72.5°	1583.8	1623.7	1654.0	1661.0	1686.4
75°	1268.3	1306.1	1350.5	1360.1	1371.5
77.5°	975.6	1025.8	1065.7	1078.7	1092.8
80°	697.9	753.5	793.5	811.3	838.4
82.5°	458.1	514.8	555.3	573.1	606.1
85°	243.1	293.9	334.4	364.1	378.1
87.5°	71.8	115.0	138.3	146.9	159.4
90°	0.0	5.4	6.5	14.6	13.5
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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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)