

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: P730784

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730784
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-LD5-24SE-W-FLI-UNV-L735
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22057.0 lumens
Efficiency: N/A
Efficacy: 147.0 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

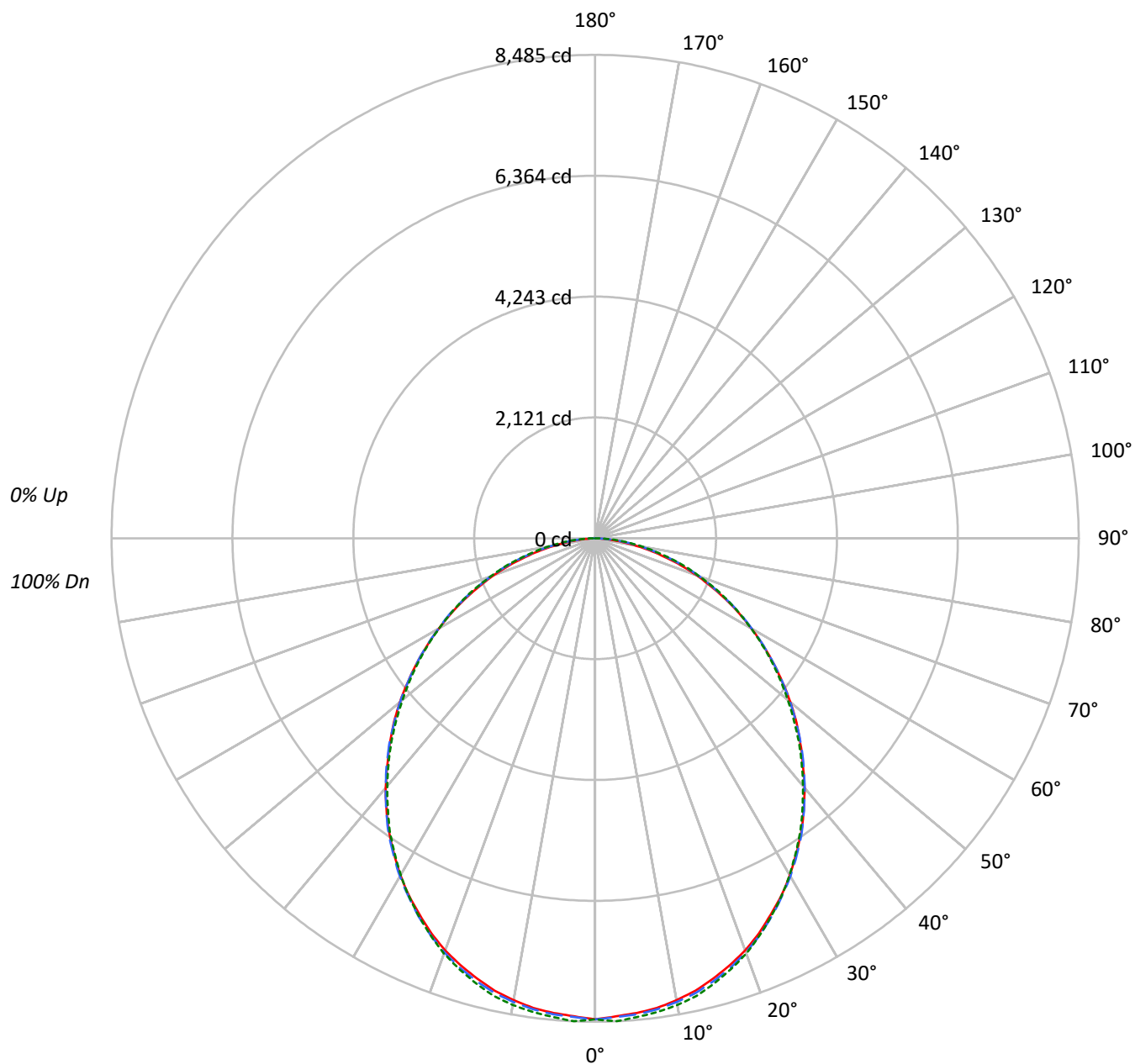
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13634	13634	13634
5°	13556	13594	13672
10°	13494	13549	13637
15°	13376	13449	13514
20°	13224	13288	13327
25°	12980	13053	13034
30°	12740	12774	12722
35°	12425	12457	12377
40°	12051	12051	11959
45°	11630	11662	11543
50°	11230	11211	11071
55°	10744	10746	10649
60°	10224	10236	10196
65°	9636	9732	9757
70°	8900	9144	9154
75°	7865	8375	8505
80°	6451	7334	7749
85°	4478	6158	6964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.6	3.6
10°-20°	2271.8	10.3
20°-30°	3376.1	15.3
30°-40°	3947.5	17.9
40°-50°	3935.8	17.8
50°-60°	3414.8	15.5
60°-70°	2522.2	11.4
70°-80°	1412.2	6.4
80°-90°	376.8	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°	6446.5	29.2
0°-40°	10394.0	47.1
0°-60°	17744.7	80.4
0°-90°	22055.9	100.0
90°-120°	1.1	0.0
90°-150°	1.1	0.0
90°-180°	1.0	0.0
0°-180°	22057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8444	8444	8444	8444	8444	
5°	8364	8417	8388	8425	8435	794
15°	8002	8058	8046	8084	8085	2257
25°	7286	7344	7327	7343	7316	3359
35°	6304	6359	6320	6319	6280	3938
45°	5093	5148	5107	5086	5055	3932
55°	3817	3843	3817	3811	3783	3413
65°	2522	2547	2547	2560	2554	2494
75°	1261	1298	1342	1352	1363	1343
85°	242	292	332	362	376	293
90°	0	5	6	14	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°	8444.0	8444.0	8444.0	8444.0	8444.0
2.5°	8397.9	8447.9	8412.9	8446.2	8484.9
5°	8364.0	8416.7	8387.6	8424.7	8435.4
7.5°	8314.7	8365.7	8337.8	8374.8	8386.1
10°	8230.8	8286.2	8264.2	8306.1	8317.9
12.5°	8133.2	8185.2	8170.7	8219.6	8227.6
15°	8002.1	8058.0	8045.6	8084.3	8084.8
17.5°	7857.1	7909.7	7900.6	7930.7	7929.6
20°	7696.6	7752.9	7733.7	7766.4	7756.1
22.5°	7506.5	7566.6	7542.4	7569.8	7544.1
25°	7285.8	7344.3	7327.2	7343.2	7316.4
27.5°	7072.1	7125.8	7090.3	7109.6	7081.2
30°	6833.6	6879.3	6851.9	6858.3	6824.0
32.5°	6565.7	6619.9	6586.6	6585.5	6549.0
35°	6303.6	6358.9	6319.8	6318.6	6279.5
37.5°	6013.7	6065.2	6019.0	6021.7	5976.1
40°	5717.8	5762.4	5717.8	5715.6	5673.8
42.5°	5396.6	5455.7	5415.0	5419.7	5363.9
45°	5093.3	5147.5	5107.3	5086.3	5055.1
47.5°	4791.0	4814.6	4781.3	4775.9	4731.9
50°	4470.9	4488.6	4463.4	4456.9	4407.6
52.5°	4140.2	4170.8	4138.5	4129.9	4097.2
55°	3816.9	3843.1	3817.4	3811.0	3783.0
57.5°	3491.5	3525.8	3499.5	3493.0	3470.6
60°	3166.1	3176.2	3169.8	3179.5	3157.5
62.5°	2842.8	2866.4	2873.9	2871.3	2854.1
65°	2522.2	2546.9	2547.4	2560.4	2553.8
67.5°	2194.1	2226.3	2235.5	2248.9	2254.8
70°	1885.3	1910.0	1936.9	1944.9	1939.0
72.5°	1574.4	1614.1	1644.3	1651.2	1676.5
75°	1260.8	1298.4	1342.5	1352.1	1363.4
77.5°	969.8	1019.7	1059.4	1072.4	1086.3
80°	693.8	749.1	788.8	806.5	833.4
82.5°	455.4	511.8	552.0	569.7	602.5
85°	241.7	292.2	332.4	361.9	375.9
87.5°	71.4	114.4	137.4	146.0	158.4
90°	0.0	5.4	6.4	14.5	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)