

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: P828059

Luminaire Tested: **OHBL-24SE-NL-UNV-L935-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828059  
REPORT IS A COMBINATION OF REPORTS P826309 AND G3-2310-221-2  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24SE-NL-UNV-L935-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

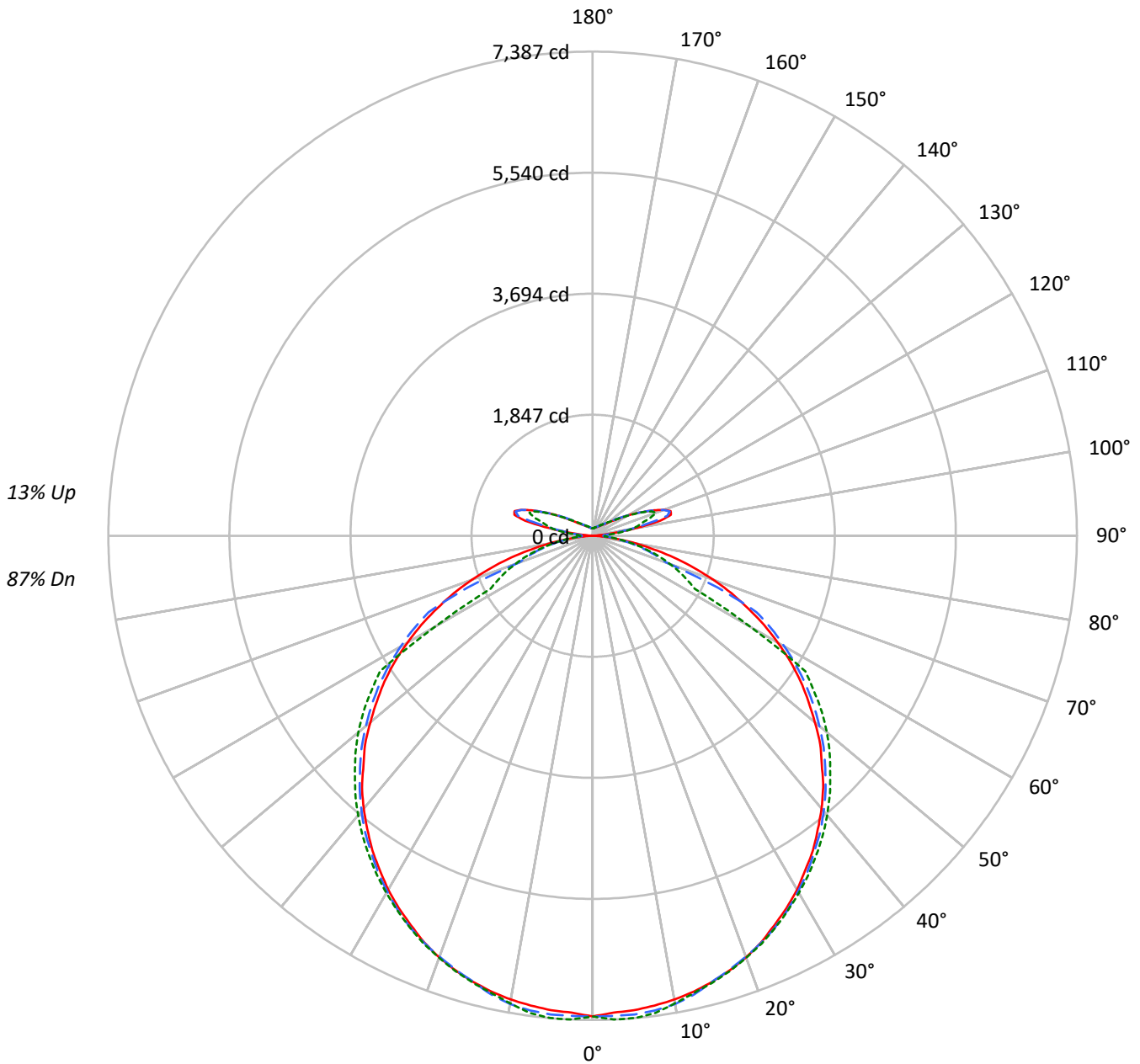
Lumens per Lamp: N/A  
Luminaire Lumens: 23574.3 lumens  
Efficiency: N/A  
Efficacy: 141.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 166.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87			87
1	106	102	98	94	102	98	95	91	92	89	86	86	83	81	80	78	77	74			74
2	97	89	83	77	93	86	80	75	80	76	71	75	71	68	70	67	65	62			62
3	88	78	71	64	85	76	69	63	71	65	60	67	62	57	62	58	55	52			52
4	81	69	61	54	78	67	59	53	63	56	51	59	54	49	56	51	47	45			45
5	74	62	53	47	71	60	52	46	56	50	44	53	47	43	50	45	41	39			39
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34			34
7	64	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30			30
8	59	46	38	32	57	45	37	31	42	35	30	40	34	30	38	33	29	27			27
9	55	42	34	29	53	41	33	28	39	32	27	37	31	27	35	30	26	24			24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22			22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12525	12525	12525
5°	12391	12502	12634
10°	12329	12444	12504
15°	12260	12254	12395
20°	12175	12151	12333
25°	12019	12074	12277
30°	11886	11940	12223
35°	11726	11781	12175
40°	11532	11631	12139
45°	11262	11421	12064
50°	10974	11183	12016
55°	10623	10882	11812
60°	10098	10438	9125
65°	9344	9866	6078
70°	8374	5072	5811
75°	6952	4584	5418
80°	4882	3835	4744
85°	1959	3072	4105



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	696.7	3.0
10°-20°	1994.8	8.5
20°-30°	3035.3	12.9
30°-40°	3690.5	15.7
40°-50°	3880.4	16.5
50°-60°	3543.3	15.0
60°-70°	2271.4	9.6
70°-80°	1073.0	4.6
80°-90°	303.9	1.3
90°-100°	308.1	1.3
100°-110°	1060.0	4.5
110°-120°	865.4	3.7
120°-130°	406.7	1.7
130°-140°	205.9	0.9
140°-150°	120.4	0.5
150°-160°	70.6	0.3
160°-170°	36.7	0.2
170°-180°	11.2	0.0
0°-30°	5726.8	24.3
0°-40°	9417.3	39.9
0°-60°	16840.9	71.4
0°-90°	20489.2	86.9
90°-120°	2233.5	9.5
90°-150°	2966.5	12.6
90°-180°	3085.0	13.1
0°-180°	23574.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7333	7333	7333	7333	7333	
5°	7265	7293	7331	7371	7386	691
15°	7045	7098	7044	7054	7059	1989
25°	6556	6566	6590	6600	6595	3025
35°	5860	5825	5892	5964	5947	3662
45°	4942	4933	5017	5136	5126	3820
55°	3873	3844	3974	4106	4116	3454
65°	2610	2610	2761	1584	1589	2587
75°	1289	1314	853	898	902	1359
85°	168	214	266	288	273	249
90°	7	113	171	200	199	12
95°	56	141	222	290	303	194
105°	1237	1242	1176	880	795	1176
115°	865	856	866	868	852	872
125°	422	438	448	440	432	398
135°	250	256	262	265	266	198
145°	182	186	190	192	193	116
155°	147	149	152	153	153	69
165°	126	128	128	129	130	36
175°	115	115	116	116	117	11
180°	113	113	113	113	113	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7333.3	7333.3	7333.3	7333.3	7333.3
2.5°	7281.8	7306.3	7333.3	7368.1	7387.3
5°	7265.1	7293.4	7330.8	7370.7	7386.1
7.5°	7229.1	7268.9	7305.0	7333.3	7342.3
10°	7184.0	7231.7	7252.3	7249.7	7243.2
12.5°	7123.5	7173.8	7167.4	7137.7	7142.9
15°	7045.1	7097.8	7043.8	7054.1	7059.3
17.5°	6952.4	7003.9	6940.8	6961.4	6962.8
20°	6844.4	6882.9	6834.0	6850.8	6850.8
22.5°	6714.4	6741.4	6720.8	6732.4	6735.0
25°	6556.1	6566.3	6589.5	6599.8	6594.7
27.5°	6404.3	6391.4	6436.5	6460.9	6447.9
30°	6235.7	6215.1	6267.8	6307.8	6292.3
32.5°	6042.7	6029.8	6090.3	6137.9	6128.9
35°	5860.0	5825.2	5892.1	5964.2	5947.4
37.5°	5643.8	5623.2	5699.1	5775.1	5766.1
40°	5432.8	5398.0	5484.3	5574.3	5565.2
42.5°	5206.3	5165.0	5259.0	5367.2	5356.8
45°	4942.4	4933.4	5017.1	5135.5	5126.5
47.5°	4708.4	4663.2	4780.3	4894.9	4905.2
50°	4425.2	4408.5	4515.3	4654.3	4664.5
52.5°	4148.6	4137.0	4248.8	4389.2	4407.2
55°	3873.2	3843.6	3973.5	4106.1	4116.4
57.5°	3578.6	3547.7	3680.3	3824.3	3846.2
60°	3263.2	3233.7	3379.0	3512.9	2793.6
62.5°	2948.0	2927.4	3079.3	2181.1	1757.8
65°	2609.6	2609.6	2761.3	1584.0	1589.2
67.5°	2293.1	2272.5	2058.9	1423.1	1423.1
70°	1953.3	1961.1	1186.3	1246.9	1248.2
72.5°	1612.3	1640.7	1024.3	1073.1	1075.7
75°	1289.3	1313.8	853.1	898.2	902.0
77.5°	947.1	728.3	685.8	720.7	721.9
80°	665.2	459.4	525.1	558.4	554.6
82.5°	388.5	321.7	384.8	409.3	407.9
85°	168.5	213.6	266.3	288.2	272.8
87.5°	53.9	132.6	165.9	178.9	177.5
90°	6.7	112.9	170.9	200.2	198.6
92.5°	20.8	106.5	167.2	208.8	215.0
95°	55.5	140.7	222.5	289.6	302.9
97.5°	314.3	362.0	351.3	437.6	460.2
100°	671.8	708.5	572.4	601.0	619.0
102.5°	1054.8	1080.5	864.4	736.2	712.5
105°	1237.2	1242.5	1175.6	879.8	795.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1016.1	1021.2	1015.8	1008.7	972.9
115°	864.8	855.7	866.2	868.2	852.1
117.5°	734.2	725.8	732.5	729.2	720.0
120°	617.5	617.5	625.8	614.2	607.5
122.5°	511.7	523.3	529.2	520.8	510.0
125°	422.5	437.5	447.5	440.0	431.7
127.5°	362.5	367.5	379.2	375.0	375.0
130°	311.7	318.3	327.5	329.2	327.5
132.5°	276.7	283.3	291.7	294.2	296.7
135°	250.0	255.8	262.5	265.0	265.8
137.5°	228.3	233.3	238.3	242.5	243.3
140°	210.0	215.0	220.0	223.3	223.3
142.5°	195.0	200.0	204.2	206.7	206.7
145°	181.7	185.8	190.0	192.5	193.3
147.5°	171.7	175.0	179.2	180.0	180.8
150°	162.5	165.0	168.3	170.0	170.8
152.5°	154.2	156.7	160.0	160.8	161.7
155°	146.7	149.2	151.7	153.3	153.3
157.5°	140.0	142.5	145.0	145.8	145.8
160°	135.0	136.7	139.2	139.2	140.0
162.5°	130.0	131.7	133.3	134.2	135.0
165°	125.8	127.5	128.3	129.2	130.0
167.5°	122.5	123.3	124.2	125.0	125.0
170°	119.2	120.0	120.8	120.8	121.7
172.5°	116.7	117.5	118.3	118.3	118.3
175°	115.0	115.0	115.8	115.8	116.7
177.5°	113.3	114.2	114.2	114.2	115.0
180°	113.3	113.3	113.3	113.3	113.3



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	1248.9	1257.8	1233.0	1081.6	<i>928.8</i>
110°	1154.4	1169.1	1153.8	1101.2	<i>1026.2</i>



(END OF REPORT)