

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: P826554

Luminaire Tested: **OHBL-24SE-N-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826554
REPORT IS A COMBINATION OF REPORTS P826080 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-N-UNV-L830-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

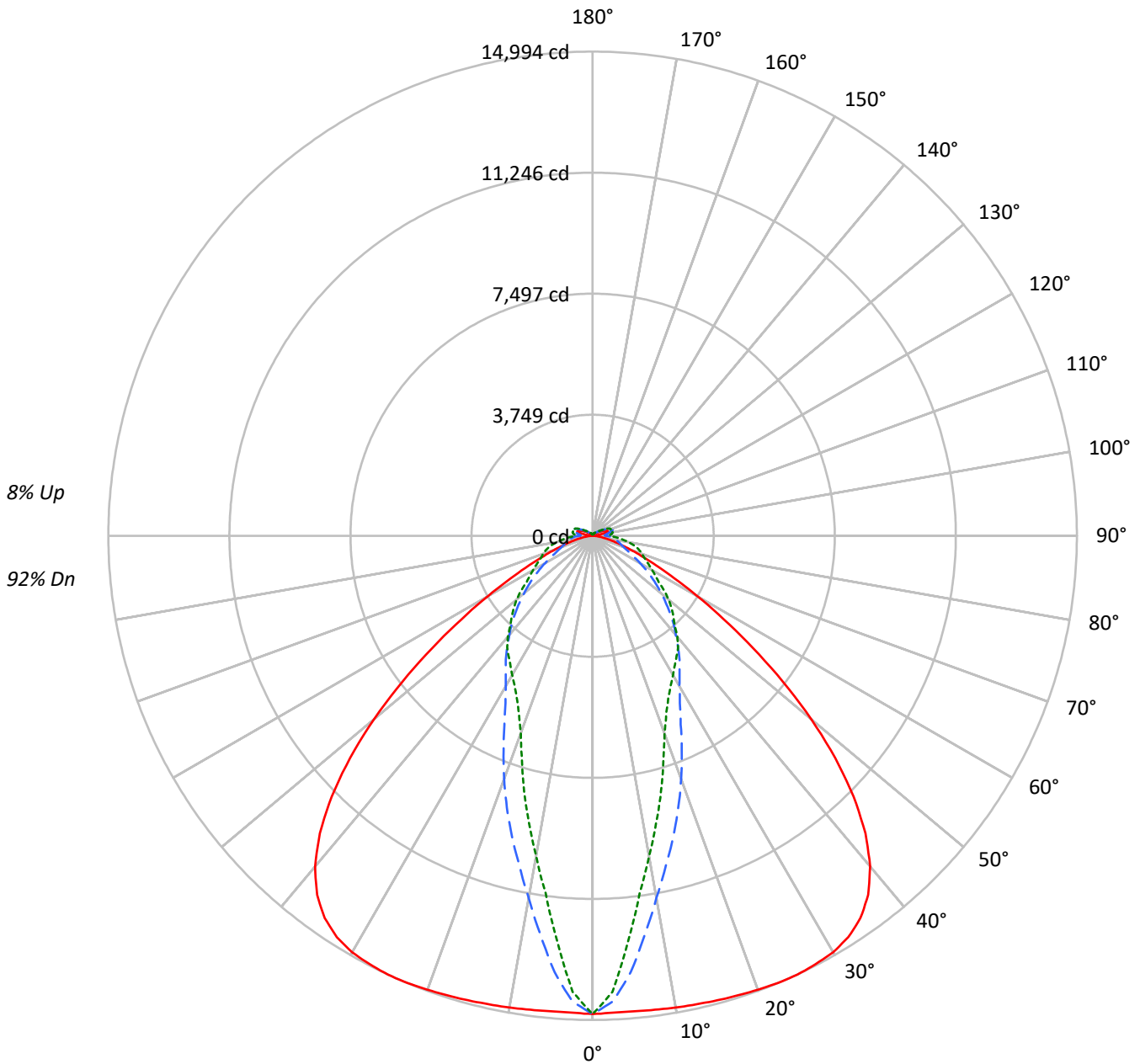
Lumens per Lamp: N/A
Luminaire Lumens: 23019.5 lumens
Efficiency: N/A
Efficacy: 157.2 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 146.4
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									
RC	80									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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	94	94	94	92																			
1	108	103	99	96	104	100	97	93	94	92	89	89	87	85	84	83	81	78																			
2	99	92	85	80	96	89	83	79	84	80	76	80	76	73	76	73	70	67																			
3	91	82	74	68	88	80	73	67	75	70	65	72	67	63	68	64	61	59																			
4	84	73	66	59	82	72	64	59	68	62	57	65	60	55	62	58	54	52																			
5	78	67	58	52	76	65	57	52	62	55	50	59	54	49	57	52	48	46																			
6	73	61	52	47	70	59	52	46	57	50	45	54	49	44	52	47	43	41																			
7	68	56	48	42	66	54	47	41	52	45	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	39	36	34																			
9	60	47	40	35	58	46	39	34	45	38	34	43	37	33	42	36	33	31																			
10	56	44	37	32	55	43	36	32	42	35	31	40	35	31	39	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25298	25298	25298
5°	25124	23038	21524
10°	25284	19406	17344
15°	25650	16597	14306
20°	26236	14033	11631
25°	26997	11616	10246
30°	27769	10007	9573
35°	28170	9120	9179
40°	27495	8238	8769
45°	25095	7444	8183
50°	20978	6577	7751
55°	15765	5760	6974
60°	10897	4940	6769
65°	7201	4255	6746
70°	4799	3993	7252
75°	3211	4118	8037
80°	2079	4560	8796
85°	1070	5705	10488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1246.8	5.4
10°-20°	2933.1	12.7
20°-30°	3676.6	16.0
30°-40°	3901.3	16.9
40°-50°	3527.4	15.3
50°-60°	2557.6	11.1
60°-70°	1605.0	7.0
70°-80°	1062.2	4.6
80°-90°	614.9	2.7
90°-100°	407.2	1.8
100°-110°	589.8	2.6
110°-120°	457.1	2.0
120°-130°	219.7	1.0
130°-140°	107.5	0.5
140°-150°	61.5	0.3
150°-160°	33.6	0.1
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	7856.6	34.1
0°-40°	11757.9	51.1
0°-60°	17842.9	77.5
0°-90°	21124.9	91.8
90°-120°	1454.1	6.3
90°-150°	1842.8	8.0
90°-180°	1895.0	8.2
0°-180°	23019.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14812	14812	14812	14812	14812	
5°	14782	14403	13557	12928	12603	###
15°	14895	12140	9642	8575	8186	4224
25°	14994	9387	6456	5730	5549	6927
35°	14456	6241	4686	4539	4538	8987
45°	11428	3953	3396	3478	3537	8706
55°	6050	2450	2216	2404	2490	5467
65°	2164	1421	1283	1644	1827	2252
75°	668	766	861	1338	1418	745
85°	117	317	630	877	805	140
90°	3	149	388	543	551	9
95°	29	147	401	545	581	81
105°	492	538	640	598	583	467
115°	350	379	494	530	529	350
125°	181	193	254	274	273	167
135°	109	115	137	157	157	87
145°	87	90	94	106	105	54
155°	73	78	80	83	80	31
165°	48	48	49	49	49	14
175°	44	44	44	44	44	4
180°	43	43	43	43	43	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14811.7	14811.7	14811.7	14811.7	14811.7
2.5°	14780.8	14696.2	14432.5	14271.8	14136.4
5°	14782.2	14403.0	13557.1	12928.4	12602.7
7.5°	14803.3	13960.3	12436.4	11518.7	11160.6
10°	14835.7	13411.9	11390.4	10412.1	10077.9
12.5°	14859.7	12794.5	10469.9	9464.8	9098.2
15°	14894.9	12140.3	9642.3	8575.3	8186.1
17.5°	14927.3	11524.3	8824.7	7709.7	7276.9
20°	14959.7	10860.3	8007.1	6858.2	6501.5
22.5°	14990.8	10159.7	7209.2	6197.0	5953.1
25°	14993.6	9387.2	6456.5	5730.5	5548.6
27.5°	14956.9	8586.5	5846.0	5340.0	5227.2
30°	14893.4	7809.8	5372.4	5058.0	4977.6
32.5°	14735.6	7017.5	5005.8	4785.9	4739.4
35°	14456.5	6240.8	4685.8	4539.2	4537.9
37.5°	14016.7	5551.4	4339.1	4313.7	4344.7
40°	13366.8	4948.0	4010.6	4078.3	4078.3
42.5°	12499.8	4423.7	3713.2	3782.2	3763.9
45°	11428.4	3952.8	3396.0	3477.8	3536.9
47.5°	10186.5	3538.3	3071.8	3229.6	3311.4
50°	8836.0	3143.6	2775.7	2977.3	3070.4
52.5°	7420.6	2778.5	2486.7	2717.9	2792.6
55°	6050.5	2450.1	2216.0	2403.5	2489.5
57.5°	4809.9	2137.1	1951.0	2128.6	2306.3
60°	3742.8	1867.8	1701.5	1955.3	2132.8
62.5°	2858.9	1628.2	1467.5	1793.2	1970.7
65°	2163.9	1421.0	1282.9	1643.7	1827.0
67.5°	1631.0	1241.9	1139.0	1535.1	1714.2
70°	1225.1	1068.6	1023.4	1467.5	1628.2
72.5°	905.1	909.2	931.9	1408.3	1531.0
75°	668.2	765.5	861.3	1337.8	1418.2
77.5°	477.9	634.4	797.9	1253.2	1281.4
80°	331.3	517.4	731.6	1141.9	1117.9
82.5°	207.2	414.5	672.4	1019.2	953.0
85°	117.0	317.2	630.2	876.9	804.9
87.5°	52.2	236.8	551.2	683.7	638.6
90°	2.8	149.3	387.5	543.4	551.4
92.5°	11.2	131.4	372.3	521.1	539.8
95°	28.9	147.0	401.4	544.9	581.4
97.5°	132.7	218.6	456.2	588.4	614.6
100°	265.3	349.7	507.5	613.6	632.4
102.5°	418.4	470.6	549.2	605.9	612.5
105°	492.4	537.6	639.8	597.7	582.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	403.0	439.7	565.2	596.9	588.0
115°	350.5	378.7	493.8	530.5	529.1
117.5°	298.0	322.8	425.7	458.1	457.6
120°	252.4	274.9	361.3	387.2	387.2
122.5°	215.1	231.1	304.3	325.5	325.0
125°	180.7	192.8	254.3	273.7	273.2
127.5°	152.3	160.7	213.7	232.5	231.2
130°	134.7	141.2	179.7	200.3	200.3
132.5°	120.1	125.8	154.8	175.6	176.5
135°	109.0	114.6	136.7	157.4	157.4
137.5°	101.5	107.7	121.7	141.0	141.9
140°	94.1	99.8	110.1	127.9	127.9
142.5°	90.0	93.2	100.7	115.8	116.7
145°	86.7	90.0	93.7	105.9	105.4
147.5°	82.1	86.7	90.0	97.1	96.6
150°	79.3	84.4	85.3	90.5	89.1
152.5°	75.6	80.7	81.6	85.4	83.9
155°	72.8	77.9	80.2	82.6	79.7
157.5°	53.0	54.9	54.9	55.8	55.8
160°	51.2	52.1	53.0	53.0	53.0
162.5°	49.3	50.2	50.2	51.2	51.2
165°	48.4	48.4	49.3	49.3	49.3
167.5°	46.5	46.5	47.5	47.5	47.5
170°	45.6	45.6	45.6	46.5	46.5
172.5°	44.7	44.7	44.7	44.7	44.7
175°	43.7	43.7	43.7	43.7	43.7
177.5°	42.8	43.7	43.7	43.7	43.7
180°	42.8	42.8	42.8	42.8	42.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	495.1	543.5	661.9	624.8	575.1
110°	455.6	501.7	625.0	638.9	601.3



(END OF REPORT)