

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: P826556

Luminaire Tested: **OHBL-24SE-N-UNV-L830-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826556
REPORT IS A COMBINATION OF REPORTS P826308 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-N-UNV-L830-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

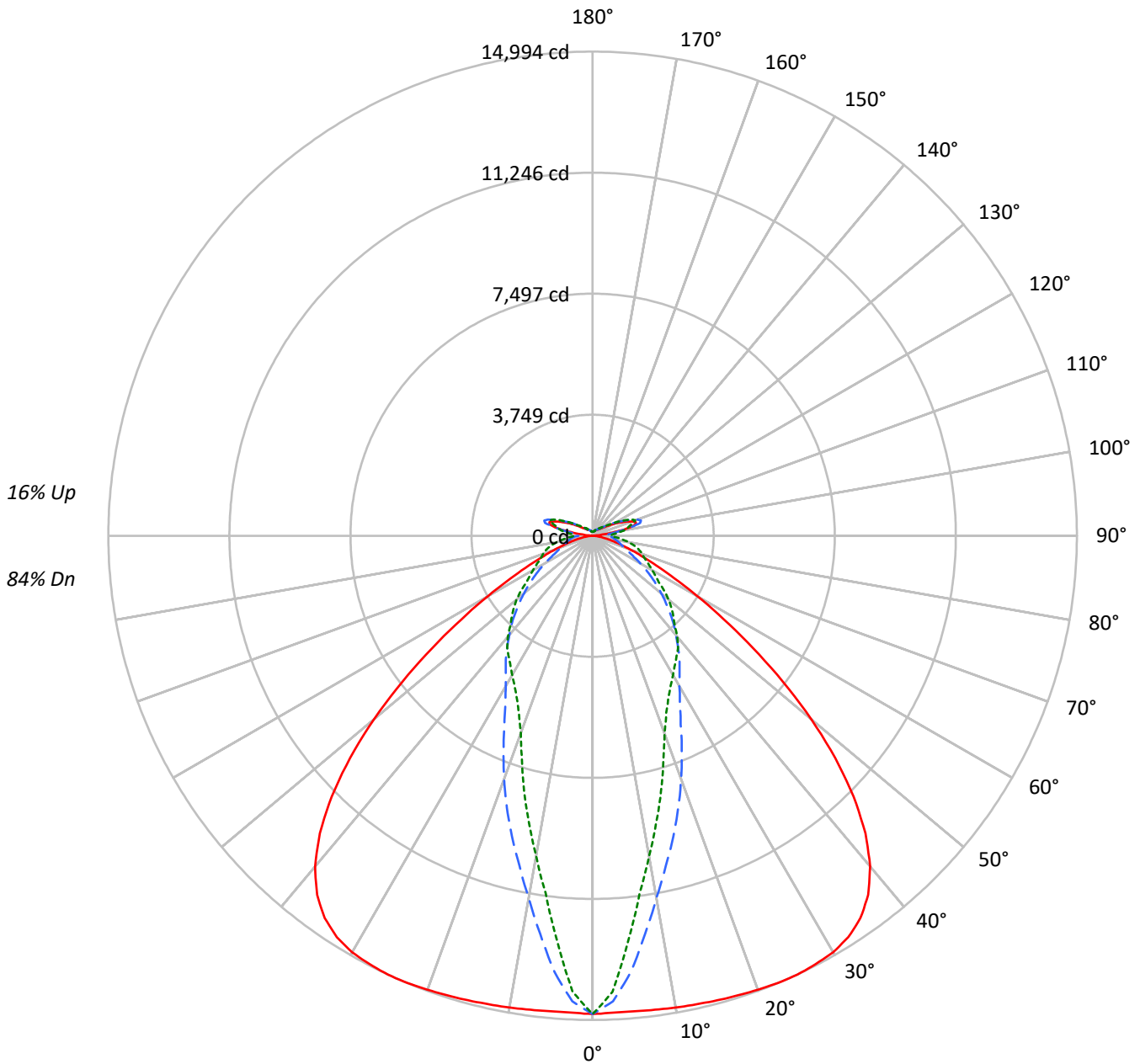
Lumens per Lamp: N/A
Luminaire Lumens: 25194.0 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 166.8
Input Voltage (V): NR
Input Current (A_{in}): 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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84																			
1	106	101	97	94	102	98	94	91	90	88	85	84	82	80	78	76	75	72																			
2	97	90	84	79	93	87	81	76	81	76	72	75	71	68	70	67	64	62																			
3	90	80	73	67	86	77	71	65	72	67	62	67	63	59	63	59	56	54																			
4	83	72	64	58	79	70	62	57	65	59	54	61	56	52	57	53	50	47																			
5	77	65	57	51	74	63	56	50	59	53	48	56	50	46	52	48	44	42																			
6	71	59	51	45	68	57	50	44	54	48	43	51	45	41	48	43	40	37																			
7	66	54	46	41	64	53	45	40	50	43	39	47	41	37	44	40	36	34																			
8	62	50	42	37	60	48	41	36	46	39	35	43	38	34	41	36	33	31																			
9	58	46	38	33	56	45	38	33	43	36	32	40	35	31	38	34	30	28																			
10	55	43	35	31	53	42	35	30	40	34	29	38	32	29	36	31	28	26																			

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	4.9
10°-20°	2933.1	11.6
20°-30°	3676.6	14.6
30°-40°	3901.3	15.5
40°-50°	3527.4	14.0
50°-60°	2557.6	10.2
60°-70°	1605.0	6.4
70°-80°	1062.2	4.2
80°-90°	619.1	2.5
90°-100°	552.5	2.2
100°-110°	1364.2	5.4
110°-120°	1086.0	4.3
120°-130°	515.4	2.0
130°-140°	258.1	1.0
140°-150°	149.8	0.6
150°-160°	85.5	0.3
160°-170°	41.0	0.2
170°-180°	12.5	0.0
0°-30°	7856.6	31.2
0°-40°	11757.9	46.7
0°-60°	17842.9	70.8
0°-90°	21129.1	83.9
90°-120°	3002.6	11.9
90°-150°	3925.8	15.6
90°-180°	4065.0	16.1
0°-180°	25194.0	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°	7	178	424	582	587	13
95°	63	208	475	632	667	220
105°	1386	1434	1524	1270	1185	1318
115°	974	989	1111	1157	1152	984
125°	489	511	580	593	582	459
135°	293	303	328	351	352	232
145°	220	226	233	247	247	140
155°	181	188	192	195	192	82
165°	140	142	143	144	145	40
175°	128	128	129	129	130	12
180°	127	127	127	127	127	



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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°	7.4	178.1	423.8	581.5	586.7
92.5°	26.1	165.8	408.6	560.2	579.8
95°	63.4	208.4	475.0	632.4	667.0
97.5°	355.1	455.9	626.4	794.0	833.3
100°	755.7	840.1	872.3	972.8	1005.6
102.5°	1180.5	1254.1	1193.2	1115.8	1099.2
105°	1385.7	1433.7	1523.8	1269.6	1185.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1140.0	1176.7	1294.8	1337.6	1314.8
115°	974.0	989.2	1110.8	1156.8	1151.7
117.5°	836.8	848.6	956.1	987.6	978.8
120°	706.5	723.4	817.3	833.9	826.4
122.5°	588.3	612.6	689.5	704.2	690.8
125°	488.7	511.1	580.0	592.9	582.2
127.5°	420.3	428.7	488.3	503.3	501.9
130°	363.6	373.8	417.9	439.5	437.6
132.5°	323.0	333.3	367.9	390.6	393.3
135°	293.2	302.6	328.4	350.9	351.8
137.5°	269.0	278.9	295.7	318.7	319.6
140°	248.6	257.0	271.1	291.6	291.6
142.5°	233.3	240.3	250.5	267.4	267.4
145°	219.8	225.8	233.3	247.3	246.9
147.5°	208.6	215.1	221.2	229.2	228.7
150°	198.4	205.4	209.1	215.2	214.8
152.5°	189.1	196.1	199.8	203.6	203.0
155°	180.7	187.7	191.9	195.2	192.3
157.5°	156.3	159.1	161.9	162.8	162.8
160°	150.8	152.6	155.4	155.4	156.3
162.5°	145.2	147.0	148.9	149.8	150.8
165°	140.5	142.4	143.3	144.2	145.2
167.5°	136.8	137.7	138.7	139.6	139.6
170°	133.1	134.0	134.9	134.9	135.9
172.5°	130.3	131.2	132.1	132.1	132.1
175°	128.4	128.4	129.3	129.3	130.3
177.5°	126.6	127.5	127.5	127.5	128.4
180°	126.6	126.6	126.6	126.6	126.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1398.7	1448.0	1571.1	1472.5	1320.5
110°	1293.1	1344.7	1467.1	1466.2	1402.5



(END OF REPORT)