

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: P826561

Luminaire Tested: **OHBL-24SE-W-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P826561
REPORT IS A COMBINATION OF REPORTS P826250 AND G3-2310-221-6
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-W-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

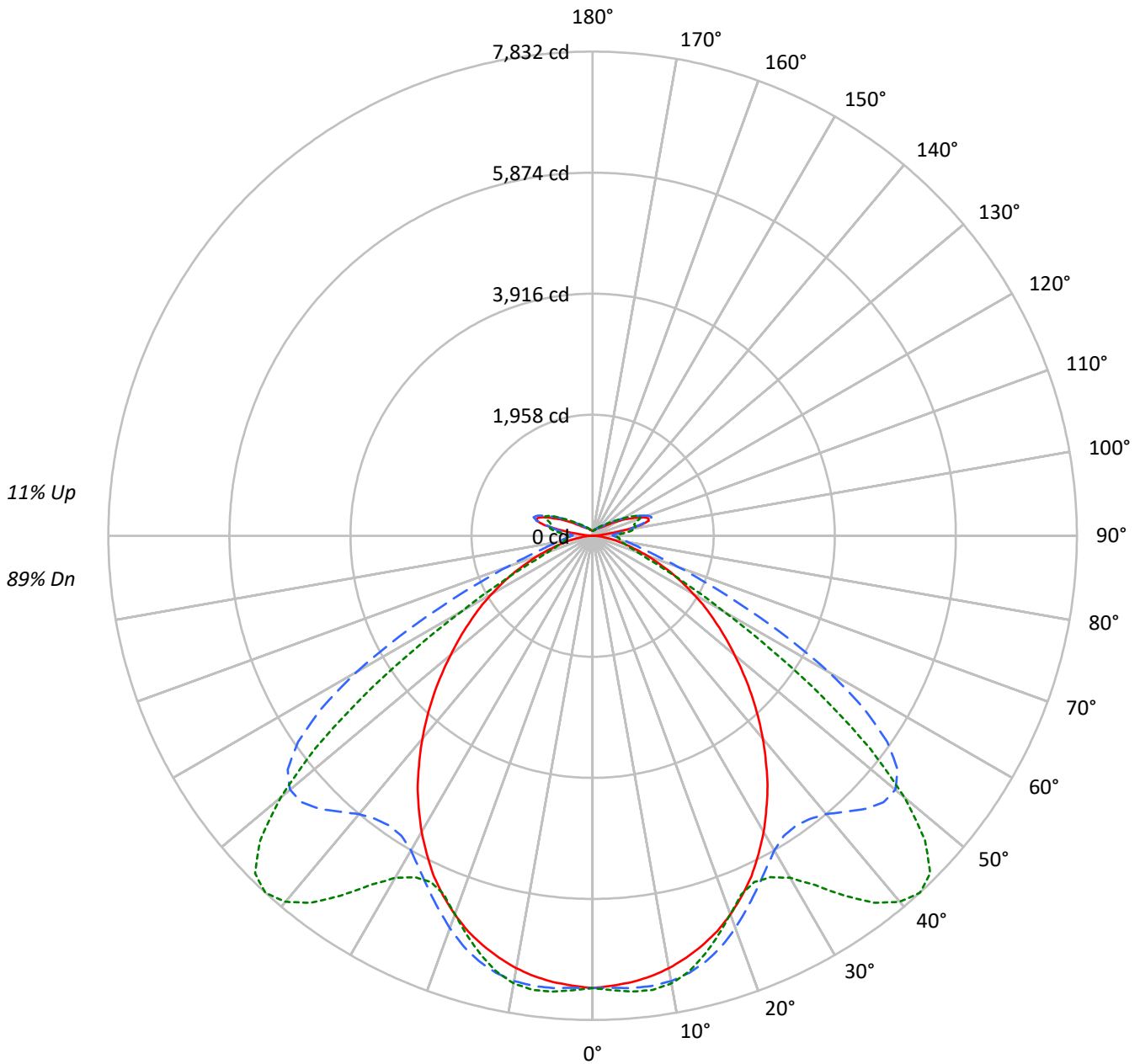
Lumens per Lamp: N/A
Luminaire Lumens: 24158.5 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 155.4
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

TEST NUMBER: P826561

CATALOG NUMBER: OHBL-24SE-W-UNV-L830-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P826561

CATALOG NUMBER: OHBL-24SE-W-UNV-L830-CD-UPL24

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	50	30	10	0		
RCR																										
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89								
1	107	102	98	94	103	99	95	92	92	90	87	87	84	82	81	80	78	75								
2	97	89	83	77	94	87	81	76	81	76	72	76	72	69	72	69	66	63								
3	89	79	71	64	85	76	69	63	72	66	61	67	62	58	63	59	56	53								
4	81	70	61	55	78	67	60	54	64	57	52	60	54	50	57	52	48	45								
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	41	39								
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	46	40	36	34								
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30								
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	29	26								
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24								
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	32	27	23	21								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12496	12496	12496
5°	12320	12479	12639
10°	12106	12460	12654
15°	11811	12253	12248
20°	11430	11832	11648
25°	10942	11322	11414
30°	10316	10943	12283
35°	9612	11145	14374
40°	8809	12071	16617
45°	7975	13692	17861
50°	7113	15140	16621
55°	6301	15120	12700
60°	5478	12791	7765
65°	4617	8832	4703
70°	3661	5709	3396
75°	2685	4091	3148
80°	1812	3591	3552
85°	1083	3944	5615



TEST NUMBER: P826561

CATALOG NUMBER: OHBL-24SE-W-UNV-L830-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.2	2.9
10°-20°	1979.8	8.2
20°-30°	2897.1	12.0
30°-40°	3762.5	15.6
40°-50°	4594.4	19.0
50°-60°	4046.1	16.7
60°-70°	2108.5	8.7
70°-80°	904.2	3.7
80°-90°	440.0	1.8
90°-100°	419.8	1.7
100°-110°	875.8	3.6
110°-120°	717.5	3.0
120°-130°	349.0	1.4
130°-140°	174.7	0.7
140°-150°	99.2	0.4
150°-160°	55.5	0.2
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	5576.0	23.1
0°-40°	9338.5	38.7
0°-60°	17979.1	74.4
0°-90°	21431.7	88.7
90°-120°	2013.1	8.3
90°-150°	2636.0	10.9
90°-180°	2727.0	11.3
0°-180°	24158.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7316	7316	7316	7316	7316	
5°	7248	7304	7343	7408	7400	687
15°	6858	7051	7119	7065	7008	1931
25°	6077	6402	6293	6175	6181	2789
35°	4933	5454	5727	6679	7106	3075
45°	3632	4570	6246	7562	7720	2801
55°	2418	4003	5817	5100	4533	2170
65°	1388	2773	2663	1481	1274	1373
75°	559	1298	856	586	556	609
85°	118	462	436	426	431	132
90°	6	199	331	386	400	12
95°	52	201	389	480	516	156
105°	940	978	934	738	695	892
115°	653	682	742	761	758	659
125°	326	347	392	406	405	304
135°	196	199	222	241	244	155
145°	148	148	152	163	167	93
155°	121	122	121	122	122	54
165°	93	94	95	95	95	27
175°	84	85	85	86	86	8
180°	84	84	84	84	84	



TEST NUMBER: P826561

CATALOG NUMBER: OHBL-24SE-W-UNV-L830-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7316.3	7316.3	7316.3	7316.3	7316.3
2.5°	7284.7	7316.3	7317.9	7362.1	7357.3
5°	7248.4	7303.7	7343.1	7407.8	7400.0
7.5°	7188.4	7275.3	7344.7	7415.7	7409.4
10°	7103.2	7221.6	7313.1	7371.5	7352.6
12.5°	6992.7	7149.0	7238.9	7251.5	7215.2
15°	6858.5	7051.1	7118.9	7065.3	7008.5
17.5°	6707.0	6932.7	6956.4	6839.6	6768.6
20°	6517.5	6774.8	6751.2	6590.2	6511.3
22.5°	6307.6	6601.2	6525.4	6356.5	6280.8
25°	6077.2	6402.3	6293.4	6175.1	6181.3
27.5°	5807.2	6176.6	6070.9	6124.5	6225.5
30°	5532.6	5939.8	5875.2	6187.6	6386.6
32.5°	5231.1	5696.8	5755.1	6372.4	6697.5
35°	4932.8	5453.7	5726.7	6678.6	7106.4
37.5°	4602.9	5207.4	5772.5	7032.1	7480.5
40°	4282.4	4967.5	5876.7	7349.4	7728.3
42.5°	3955.7	4752.8	6051.9	7537.2	7832.4
45°	3632.1	4569.7	6246.1	7562.5	7720.4
47.5°	3308.5	4415.0	6380.3	7362.1	7289.4
50°	2995.9	4277.7	6389.7	6880.6	6583.9
52.5°	2703.9	4151.4	6216.1	6113.5	5652.6
55°	2418.2	4003.1	5816.7	5100.1	4533.4
57.5°	2157.8	3797.9	5201.1	4011.0	3392.2
60°	1881.6	3520.0	4405.5	2934.4	2446.6
62.5°	1627.4	3174.3	3513.7	2042.6	1758.5
65°	1387.5	2773.4	2662.9	1480.6	1273.8
67.5°	1133.3	2358.2	1965.2	1079.7	947.1
70°	934.5	1973.2	1463.3	839.7	762.4
72.5°	730.9	1606.9	1093.9	681.9	639.3
75°	558.8	1297.5	855.6	585.6	555.6
77.5°	412.0	1026.0	688.2	517.8	489.3
80°	288.8	808.2	576.1	462.5	451.4
82.5°	194.1	625.1	490.9	440.4	442.0
85°	118.4	462.5	435.7	426.2	430.9
87.5°	56.9	328.3	374.1	388.3	393.1
90°	6.2	199.0	331.0	386.0	400.4
92.5°	15.8	169.7	319.6	388.5	408.5
95°	52.5	201.2	389.0	480.5	516.3
97.5°	253.5	351.3	496.5	598.9	634.4
100°	518.4	614.7	623.3	687.9	701.0
102.5°	798.5	850.7	739.2	714.4	710.1
105°	939.7	978.4	933.8	737.7	695.2



TEST NUMBER: P826561

CATALOG NUMBER: OHBL-24SE-W-UNV-L830-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	761.4	800.9	852.4	853.0	826.4
115°	653.4	682.0	742.0	760.6	758.2
117.5°	562.0	580.2	636.0	654.1	656.6
120°	467.0	489.8	544.0	558.3	554.3
122.5°	393.5	412.6	460.8	476.3	472.3
125°	325.6	347.1	391.5	406.3	405.1
127.5°	275.6	289.3	333.3	350.1	350.7
130°	241.2	248.6	286.3	303.1	307.2
132.5°	215.1	221.7	250.2	269.8	272.0
135°	195.6	199.3	221.6	240.8	244.3
137.5°	179.8	182.6	199.2	217.8	220.9
140°	165.8	169.5	180.5	198.1	200.6
142.5°	155.3	157.4	165.9	180.3	181.9
145°	147.6	148.1	152.5	162.9	166.9
147.5°	139.2	141.4	143.2	151.4	153.0
150°	132.7	134.6	134.2	138.3	142.4
152.5°	126.2	128.0	127.7	128.6	131.8
155°	120.6	122.5	121.2	122.1	122.1
157.5°	103.3	105.2	107.0	107.9	107.9
160°	99.6	100.5	102.4	103.3	103.3
162.5°	95.8	96.8	97.7	98.6	98.6
165°	93.1	94.0	94.9	94.9	94.9
167.5°	90.3	90.3	91.2	92.1	92.1
170°	87.5	88.4	88.4	89.3	89.3
172.5°	85.6	86.5	86.5	86.5	87.5
175°	83.8	84.7	84.7	85.6	85.6
177.5°	83.8	83.8	83.8	83.8	83.8
180°	83.8	83.8	83.8	83.8	83.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	945.0	989.7	1000.8	837.8	727.4
110°	872.4	915.5	947.8	901.4	813.4



(END OF REPORT)