

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: P826525

Luminaire Tested: **OHBL-18SE-W-UNV-L830-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826525
REPORT IS A COMBINATION OF REPORTS P826166 AND G3-2310-221-8
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-W-UNV-L830-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

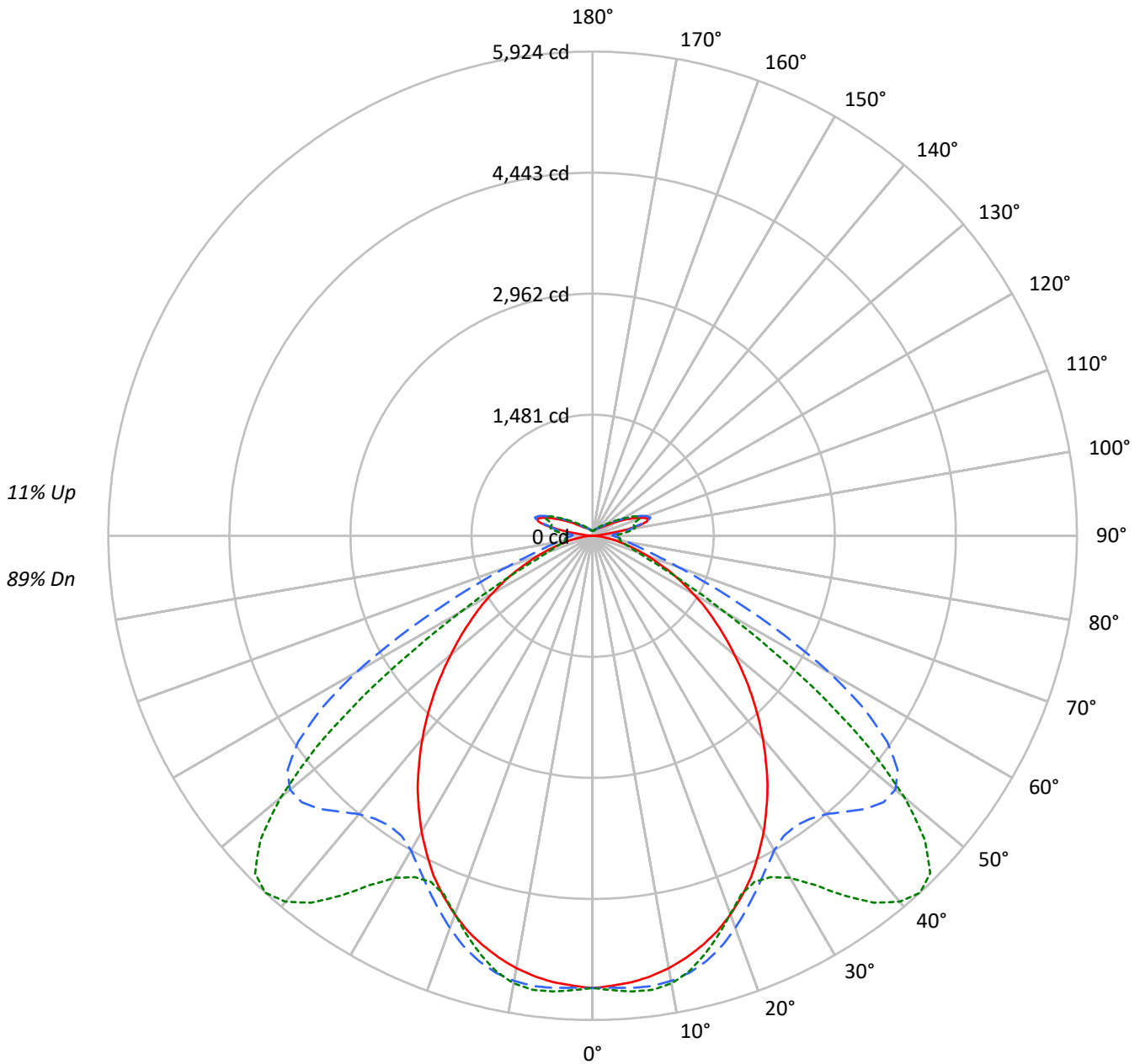
Lumens per Lamp: N/A
Luminaire Lumens: 18234.1 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 117.3
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: P826525

CATALOG NUMBER: OHBL-18SE-W-UNV-L830-CD-UPL18

Luminous Intensity Polar Plot





TEST NUMBER: P826525

CATALOG NUMBER: OHBL-18SE-W-UNV-L830-CD-UPL18

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	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	93	90	87	87	84	82	82	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	64	59	56	53																			
4	81	70	61	55	78	67	60	54	64	57	52	60	54	50	57	52	48	46																			
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	42	39																			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	38	46	41	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	27																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	51	38	31	25	50	37	30	25	36	29	24	34	28	24	32	27	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9451	9451	9451
5°	9318	9438	9559
10°	9156	9424	9570
15°	8933	9268	9264
20°	8645	8949	8810
25°	8276	8564	8633
30°	7802	8277	9290
35°	7270	8430	10871
40°	6663	9130	12568
45°	6032	10356	13509
50°	5380	11451	12571
55°	4766	11436	9605
60°	4143	9675	5873
65°	3492	6680	3558
70°	2769	4318	2569
75°	2031	3094	2381
80°	1371	2717	2686
85°	818	2983	4247



TEST NUMBER: P826525

CATALOG NUMBER: OHBL-18SE-W-UNV-L830-CD-UPL18

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.8	2.9
10°-20°	1497.4	8.2
20°-30°	2191.2	12.0
30°-40°	2845.7	15.6
40°-50°	3475.0	19.1
50°-60°	3060.2	16.8
60°-70°	1594.7	8.7
70°-80°	683.9	3.8
80°-90°	332.6	1.8
90°-100°	313.6	1.7
100°-110°	649.2	3.6
110°-120°	532.1	2.9
120°-130°	259.1	1.4
130°-140°	129.5	0.7
140°-150°	73.7	0.4
150°-160°	41.3	0.2
160°-170°	20.0	0.1
170°-180°	6.1	0.0
0°-30°	4217.4	23.1
0°-40°	7063.1	38.7
0°-60°	13598.3	74.6
0°-90°	16209.5	88.9
90°-120°	1495.0	8.2
90°-150°	1957.3	10.7
90°-180°	2025.0	11.1
0°-180°	18234.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5534	5534	5534	5534	5534	
5°	5482	5524	5554	5603	5597	520
15°	5187	5333	5384	5344	5301	1461
25°	4596	4842	4760	4670	4675	2109
35°	3731	4125	4331	5051	5375	2325
45°	2747	3456	4724	5720	5839	2118
55°	1829	3028	4399	3857	3429	1642
65°	1049	2098	2014	1120	964	1038
75°	423	981	647	443	420	461
85°	90	350	330	322	326	100
90°	5	150	249	290	301	9
95°	38	150	293	358	387	113
105°	694	725	695	545	516	659
115°	484	507	551	561	563	489
125°	241	256	291	302	301	226
135°	145	148	164	179	181	115
145°	110	110	114	122	124	69
155°	90	92	90	91	91	41
165°	69	70	70	71	71	20
175°	62	62	63	63	63	6
180°	62	62	62	62	62	



TEST NUMBER: P826525

CATALOG NUMBER: OHBL-18SE-W-UNV-L830-CD-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5533.5	5533.5	5533.5	5533.5	5533.5
2.5°	5509.7	5533.5	5534.8	5568.3	5564.6
5°	5482.3	5524.1	5553.9	5602.9	5596.8
7.5°	5436.9	5502.6	5555.0	5608.8	5604.0
10°	5372.4	5462.0	5531.2	5575.3	5561.1
12.5°	5288.8	5407.1	5475.1	5484.6	5457.2
15°	5187.4	5333.0	5384.4	5343.8	5300.8
17.5°	5072.7	5243.5	5261.4	5173.1	5119.4
20°	4929.5	5124.1	5106.1	4984.4	4924.7
22.5°	4770.7	4992.8	4935.5	4807.7	4750.4
25°	4596.4	4842.3	4760.0	4670.5	4675.2
27.5°	4392.2	4671.6	4591.6	4632.2	4708.6
30°	4184.5	4492.5	4443.6	4680.0	4830.4
32.5°	3956.4	4308.7	4352.9	4819.6	5065.6
35°	3730.9	4124.8	4331.4	5051.2	5374.8
37.5°	3481.3	3938.6	4366.0	5318.7	5657.8
40°	3239.0	3757.1	4444.8	5558.7	5845.2
42.5°	2991.8	3594.7	4577.3	5700.8	5924.0
45°	2747.1	3456.3	4724.2	5719.8	5839.2
47.5°	2502.4	3339.3	4825.6	5568.3	5513.3
50°	2266.0	3235.4	4832.7	5204.0	4979.6
52.5°	2045.1	3139.9	4701.4	4623.8	4275.3
55°	1829.0	3027.7	4399.4	3857.4	3428.8
57.5°	1632.0	2872.4	3933.8	3033.6	2565.6
60°	1423.1	2662.3	3332.1	2219.4	1850.5
62.5°	1230.8	2400.8	2657.6	1544.9	1330.0
65°	1049.4	2097.7	2014.1	1119.8	963.5
67.5°	857.2	1783.7	1486.4	816.6	716.3
70°	706.8	1492.3	1106.7	635.1	576.7
72.5°	552.8	1215.4	827.4	515.7	483.5
75°	422.7	981.4	647.1	442.9	420.2
77.5°	311.6	776.0	520.6	391.6	370.1
80°	218.5	611.3	435.8	349.8	341.4
82.5°	146.8	472.8	371.3	333.0	334.3
85°	89.5	349.8	329.5	322.3	325.9
87.5°	43.0	248.4	283.0	293.7	297.3
90°	4.9	149.8	248.9	290.2	300.8
92.5°	12.1	127.4	242.2	292.8	306.2
95°	37.8	150.3	293.1	358.4	386.6
97.5°	183.9	259.1	376.7	448.6	467.1
100°	377.6	445.3	467.9	513.6	522.7
102.5°	588.9	630.9	546.6	532.0	528.7
105°	694.3	724.8	694.8	545.3	516.0



TEST NUMBER: P826525

CATALOG NUMBER: OHBL-18SE-W-UNV-L830-CD-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	567.4	592.6	631.6	633.3	612.5
115°	484.5	506.9	551.3	561.2	562.7
117.5°	415.0	430.9	472.2	484.6	486.8
120°	348.0	364.0	402.5	413.9	413.3
122.5°	292.2	306.5	343.4	353.7	353.1
125°	241.0	255.7	290.9	302.0	301.2
127.5°	204.4	214.0	248.6	259.6	259.0
130°	178.4	184.9	212.0	224.8	228.2
132.5°	160.7	163.5	185.8	198.7	203.0
135°	144.9	147.7	164.2	179.2	181.4
137.5°	132.8	135.6	147.7	161.5	164.8
140°	122.6	125.3	132.9	146.7	148.8
142.5°	115.4	117.0	123.3	133.8	136.0
145°	110.1	109.5	113.5	121.6	124.0
147.5°	103.6	104.2	106.1	112.7	113.9
150°	98.0	99.8	99.3	102.6	105.9
152.5°	94.3	95.2	94.6	95.6	98.0
155°	89.6	91.5	90.0	90.9	90.9
157.5°	77.2	78.2	79.1	80.0	80.0
160°	74.4	74.4	75.4	76.3	76.3
162.5°	71.7	71.7	72.6	73.5	73.5
165°	68.9	69.8	69.8	70.7	70.7
167.5°	67.0	67.0	67.9	67.9	68.9
170°	65.1	65.1	66.1	66.1	66.1
172.5°	63.3	64.2	64.2	64.2	64.2
175°	62.3	62.3	63.3	63.3	63.3
177.5°	61.4	62.3	62.3	62.3	62.3
180°	62.3	62.3	62.3	62.3	62.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	702.0	733.1	742.4	619.4	540.7
110°	643.4	677.1	705.3	668.6	606.7



(END OF REPORT)