

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: P828013

Luminaire Tested: **OHBL-18SE-MCL-UNV-L935-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828013
REPORT IS A COMBINATION OF REPORTS P826162 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-MCL-UNV-L935-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

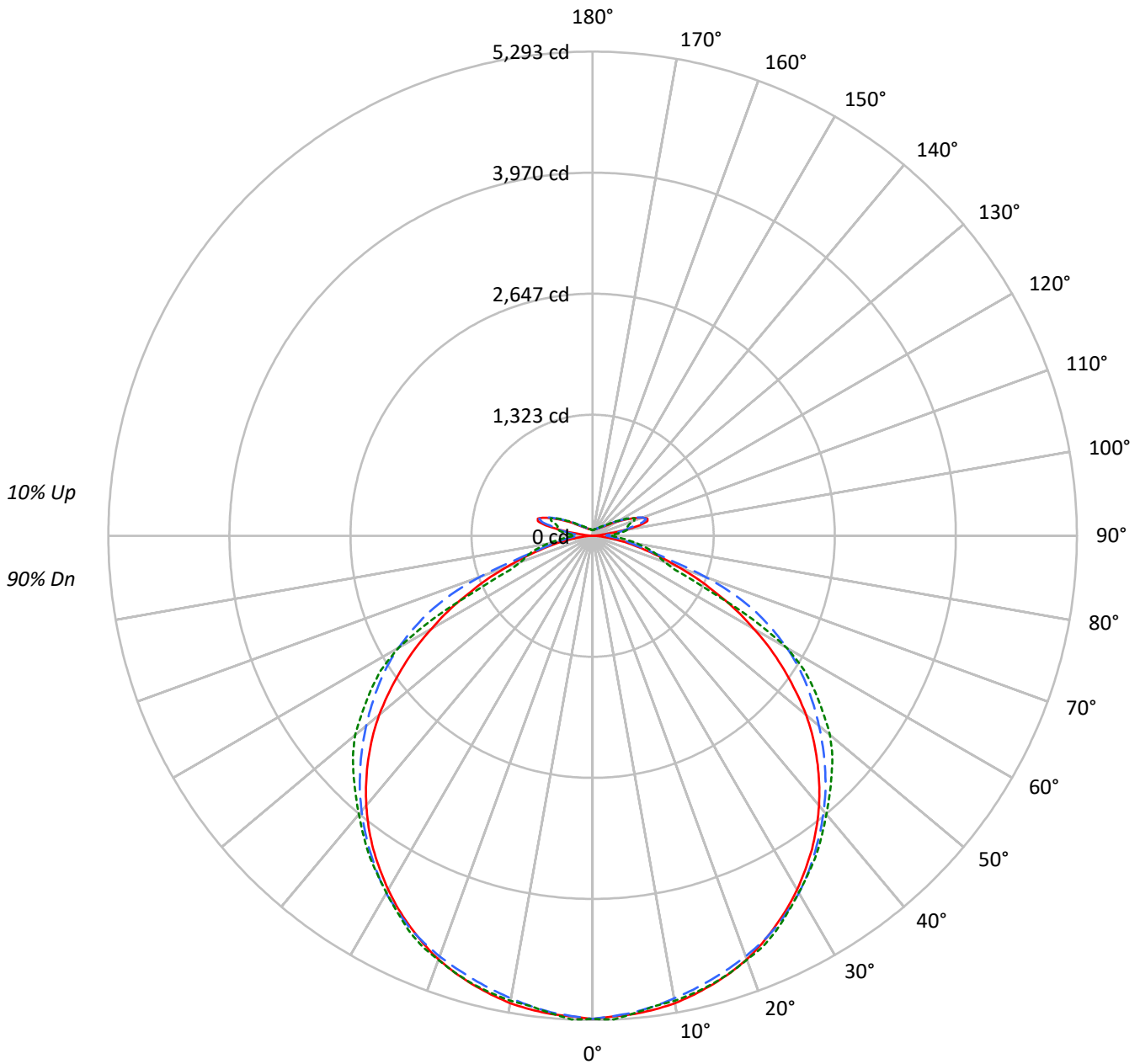
Lumens per Lamp: N/A
Luminaire Lumens: 16420.7 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

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: P828013

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L935-CD-UPL18

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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	93	93	93	90
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	79	82	80	79	76
2	97	89	83	77	94	87	81	76	82	77	72	77	73	69	72	69	66	72	69	66	64
3	89	79	71	64	86	76	69	63	72	66	61	68	63	59	64	60	56	64	60	56	54
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	57	52	48	46
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	51	46	42	40
6	69	56	47	41	66	54	46	40	52	45	39	49	43	38	47	41	37	47	41	37	35
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	42	37	33	31
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	39	33	29	27
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	36	30	26	25
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	33	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9021	9021	9021
5°	8919	8886	8947
10°	8843	8748	8885
15°	8743	8643	8864
20°	8643	8576	8824
25°	8493	8508	8788
30°	8332	8403	8665
35°	8147	8239	8620
40°	7918	8069	8545
45°	7619	7874	8548
50°	7231	7651	8549
55°	6653	7431	8310
60°	5917	7111	7776
65°	4986	6525	5005
70°	3919	5083	3708
75°	2833	3009	3886
80°	1855	2490	3918
85°	929	2261	4120



TEST NUMBER: P828013

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L935-CD-UPL18

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.0	3.0
10°-20°	1428.1	8.7
20°-30°	2181.2	13.3
30°-40°	2646.6	16.1
40°-50°	2773.9	16.9
50°-60°	2513.5	15.3
60°-70°	1685.2	10.3
70°-80°	756.7	4.6
80°-90°	278.4	1.7
90°-100°	225.3	1.4
100°-110°	534.5	3.3
110°-120°	445.3	2.7
120°-130°	215.2	1.3
130°-140°	109.5	0.7
140°-150°	64.3	0.4
150°-160°	38.3	0.2
160°-170°	20.3	0.1
170°-180°	6.2	0.0
0°-30°	4107.4	25.0
0°-40°	6754.0	41.1
0°-60°	12041.4	73.3
0°-90°	14761.7	89.9
90°-120°	1205.1	7.3
90°-150°	1594.2	9.7
90°-180°	1659.0	10.1
0°-180°	16420.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5282	5282	5282	5282	5282	
5°	5248	5266	5229	5245	5238	499
15°	5077	5057	5022	5066	5072	1434
25°	4717	4696	4729	4773	4759	2174
35°	4181	4191	4233	4278	4262	2613
45°	3470	3526	3592	3684	3695	2673
55°	2553	2676	2859	2973	2966	2279
65°	1498	1733	1967	1660	1356	1493
75°	590	855	629	644	686	644
85°	102	195	250	302	316	124
90°	4	86	157	199	211	8
95°	32	109	196	247	270	101
105°	621	629	565	420	394	589
115°	434	442	454	455	456	437
125°	214	224	238	239	238	201
135°	130	134	138	144	146	103
145°	97	99	102	103	104	62
155°	79	82	83	83	83	37
165°	70	71	71	72	72	20
175°	64	64	64	64	64	6
180°	64	64	64	64	64	



TEST NUMBER: P828013

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L935-CD-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5281.9	5281.9	5281.9	5281.9	5281.9
2.5°	5260.6	5282.8	5255.2	5285.0	5292.7
5°	5247.6	5265.9	5229.3	5245.3	5238.4
7.5°	5223.9	5230.0	5186.5	5199.5	5185.8
10°	5188.8	5185.8	5134.6	5159.8	5162.8
12.5°	5136.8	5127.7	5081.8	5120.0	5120.8
15°	5077.2	5057.4	5021.5	5065.8	5071.9
17.5°	5008.5	4982.6	4958.9	5016.2	5007.0
20°	4928.3	4897.8	4893.2	4955.8	4932.9
22.5°	4829.1	4805.4	4816.1	4875.7	4861.2
25°	4716.8	4696.2	4729.0	4772.6	4758.8
27.5°	4598.4	4586.2	4623.6	4657.2	4630.5
30°	4468.6	4461.7	4511.3	4538.8	4505.2
32.5°	4327.2	4329.6	4376.9	4414.3	4383.1
35°	4180.7	4190.6	4233.3	4278.4	4261.6
37.5°	4019.5	4041.7	4084.4	4135.6	4118.0
40°	3849.2	3881.2	3928.6	3990.5	3974.4
42.5°	3665.2	3705.6	3766.8	3835.4	3833.9
45°	3469.6	3526.2	3591.8	3683.5	3694.9
47.5°	3266.5	3329.8	3413.1	3535.3	3552.8
50°	3045.8	3125.2	3229.1	3375.7	3386.4
52.5°	2799.8	2908.2	3045.8	3186.2	3173.3
55°	2553.2	2676.1	2858.7	2973.2	2966.3
57.5°	2307.2	2445.5	2666.9	2748.7	2747.9
60°	2032.2	2207.2	2449.2	2511.2	2450.1
62.5°	1778.0	1965.8	2217.1	2172.1	1962.8
65°	1498.4	1732.9	1967.3	1660.3	1355.6
67.5°	1250.2	1494.6	1671.0	1137.2	973.8
70°	1000.5	1270.1	1302.9	843.9	832.5
72.5°	779.0	1066.2	898.9	722.5	759.2
75°	589.6	855.4	629.3	643.8	685.8
77.5°	430.0	656.8	489.6	564.4	598.8
80°	295.6	465.1	399.4	474.3	497.9
82.5°	185.6	307.0	320.0	381.8	406.3
85°	101.6	194.8	249.8	301.7	316.2
87.5°	42.0	117.6	190.9	232.9	245.2
90°	4.1	85.8	157.4	199.4	211.2
92.5°	11.6	77.2	151.2	193.9	205.9
95°	32.4	108.8	196.1	246.8	269.9
97.5°	164.0	209.6	272.4	324.3	340.8
100°	337.2	378.4	356.8	384.0	391.3
102.5°	527.3	544.8	430.2	404.3	401.6
105°	620.6	629.2	565.2	420.2	394.2



TEST NUMBER: P828013

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L935-CD-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	507.0	515.7	521.0	514.5	495.2
115°	433.6	441.7	453.8	454.9	455.6
117.5°	370.2	374.3	387.4	390.3	392.7
120°	310.2	316.8	330.2	331.4	330.6
122.5°	260.2	267.8	280.3	281.7	280.8
125°	213.7	224.4	237.9	239.3	238.5
127.5°	182.8	190.3	203.9	205.3	204.4
130°	159.4	166.0	174.8	178.8	179.6
132.5°	144.3	147.7	154.9	158.8	160.5
135°	130.2	133.5	138.4	143.9	145.5
137.5°	120.2	122.7	126.0	131.4	133.1
140°	111.0	113.5	115.2	119.9	121.5
142.5°	102.7	106.0	107.7	110.8	112.4
145°	96.8	99.3	101.8	103.4	104.2
147.5°	91.8	93.5	95.2	96.8	97.6
150°	86.8	88.5	90.2	91.0	91.8
152.5°	83.5	84.3	86.0	86.8	86.8
155°	79.3	81.8	82.6	83.4	82.7
157.5°	76.8	78.4	79.2	80.1	80.1
160°	74.3	75.1	75.9	76.8	76.8
162.5°	72.6	72.6	73.4	74.2	74.2
165°	70.1	70.9	70.9	71.8	71.8
167.5°	68.4	69.2	69.2	69.2	70.1
170°	66.8	66.8	67.6	66.8	66.8
172.5°	65.1	65.9	65.9	65.2	65.2
175°	64.2	64.2	64.3	63.5	63.5
177.5°	64.2	64.2	63.5	62.7	61.9
180°	63.5	63.5	63.5	63.5	63.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	627.2	637.8	612.4	491.8	420.8
110°	575.4	589.8	583.8	540.7	484.8



(END OF REPORT)