

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: P828010

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828010
REPORT IS A COMBINATION OF REPORTS P826161 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-A-UNV-L935-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

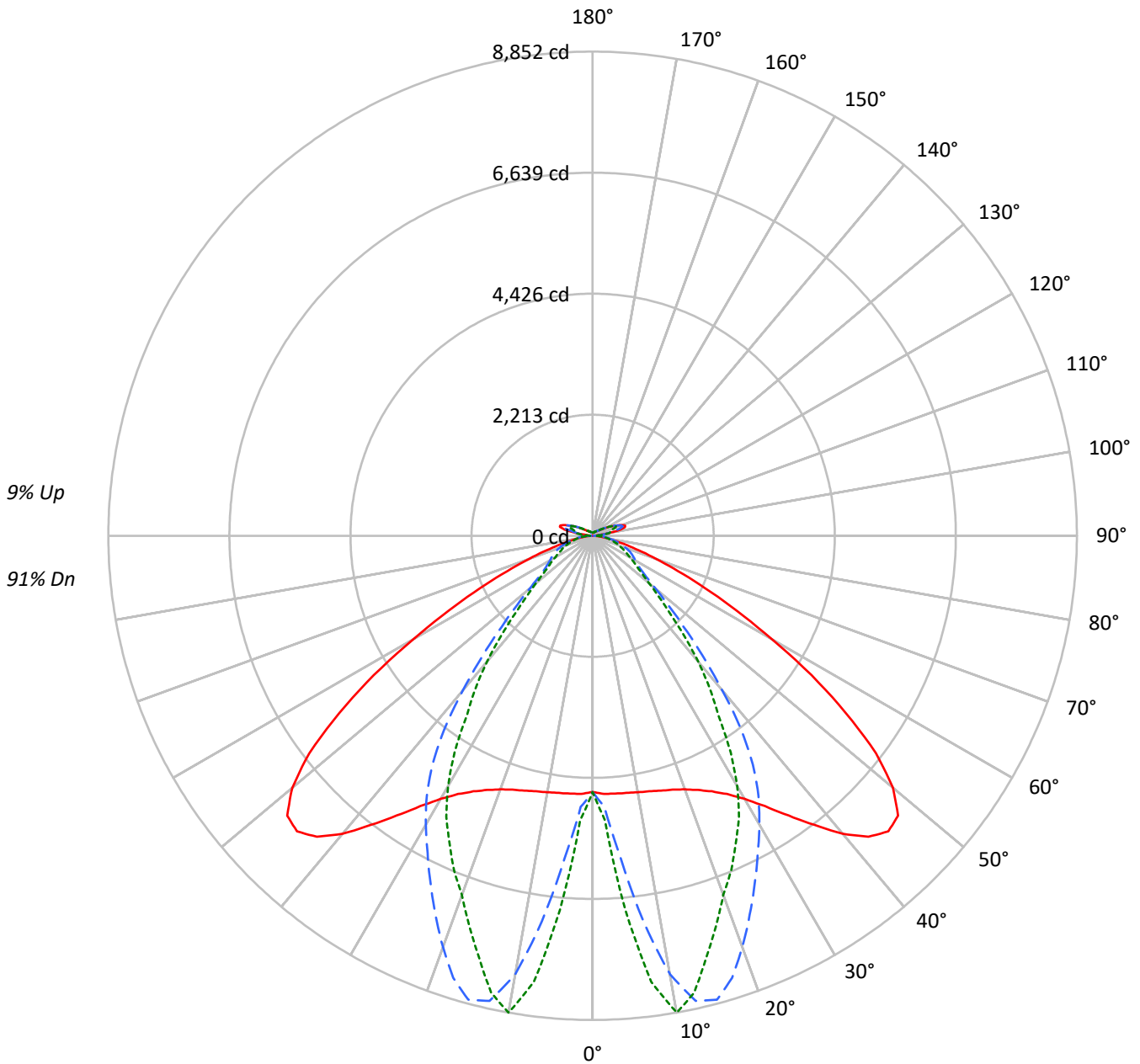
Lumens per Lamp: N/A
Luminaire Lumens: 16524.1 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 117.3
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

TEST NUMBER: P828010

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

Luminous Intensity Polar Plot





TEST NUMBER: P828010

CATALOG NUMBER: OHBL-18SE-A-UNV-L935-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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	108	104	101	98	105	101	98	95	96	93	91	90	88	86	85	84	82	80																			
2	100	93	88	83	97	91	85	81	86	82	78	81	78	75	77	74	72	69																			
3	93	84	77	71	90	81	75	70	77	72	68	74	69	65	70	66	63	61																			
4	86	75	68	62	83	74	67	61	70	64	59	67	62	58	64	60	56	54																			
5	80	68	60	55	77	67	59	54	64	57	53	61	56	51	58	54	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	54	49	45	43																			
7	69	57	49	44	67	56	48	43	54	47	42	51	46	41	49	44	41	39																			
8	65	52	45	39	63	51	44	39	49	43	38	47	42	38	46	41	37	35																			
9	61	48	41	36	59	47	40	36	46	39	35	44	38	34	42	37	34	32																			
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	40	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8001	8001	8001
5°	8042	10063	11729
10°	8114	13874	15235
15°	8307	15114	13983
20°	8650	14023	12496
25°	9281	12612	11430
30°	10349	11356	10164
35°	12167	9939	8099
40°	14629	7569	6446
45°	16781	5157	4588
50°	17012	3537	3393
55°	14726	2784	2772
60°	11000	2605	2494
65°	7540	2613	2362
70°	4821	2520	2288
75°	2899	2333	2189
80°	1706	2050	2259
85°	821	1760	2094



TEST NUMBER: P828010

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.6	3.7
10°-20°	2158.5	13.1
20°-30°	3180.7	19.2
30°-40°	3342.4	20.2
40°-50°	2557.6	15.5
50°-60°	1544.4	9.3
60°-70°	942.4	5.7
70°-80°	514.4	3.1
80°-90°	184.3	1.1
90°-100°	142.7	0.9
100°-110°	495.5	3.0
110°-120°	425.7	2.6
120°-130°	204.5	1.2
130°-140°	102.1	0.6
140°-150°	59.3	0.4
150°-160°	34.6	0.2
160°-170°	17.9	0.1
170°-180°	5.5	0.0
0°-30°	5950.8	36.0
0°-40°	9293.2	56.2
0°-60°	13395.2	81.1
0°-90°	15036.2	91.0
90°-120°	1063.9	6.4
90°-150°	1429.8	8.7
90°-180°	1488.0	9.0
0°-180°	16524.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4684	4684	4684	4684	4684	
5°	4732	5076	5922	6612	6867	452
15°	4824	7513	8781	8194	8001	1372
25°	5155	8720	7010	6347	6190	2409
35°	6244	6983	5107	4253	4004	3961
45°	7642	3984	2352	2070	1983	5774
55°	5652	1351	1071	993	990	4994
65°	2266	855	788	674	640	2322
75°	603	532	488	403	386	694
85°	90	165	194	177	161	111
90°	3	21	28	38	42	7
95°	32	68	108	139	159	100
105°	618	612	522	368	339	586
115°	428	432	432	427	426	431
125°	208	218	224	223	222	196
135°	123	126	130	132	132	98
145°	90	92	94	95	95	57
155°	72	73	74	75	75	34
165°	62	62	62	63	63	18
175°	56	56	57	57	57	5
180°	56	56	56	56	56	



TEST NUMBER: P828010

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4684.5	4684.5	4684.5	4684.5	4684.5
2.5°	4722.9	4771.1	4961.2	5158.4	5206.4
5°	4731.5	5076.2	5921.8	6612.2	6867.3
7.5°	4741.6	5570.6	7112.0	7957.3	8227.8
10°	4760.7	6195.8	8143.3	8750.2	8852.4
12.5°	4784.3	6858.1	8710.8	8688.7	8559.8
15°	4823.8	7513.2	8780.7	8193.8	8001.1
17.5°	4865.2	8067.3	8475.8	7654.9	7487.3
20°	4932.4	8478.8	8001.5	7176.1	6985.4
22.5°	5029.4	8705.0	7504.1	6743.0	6618.6
25°	5154.6	8719.6	7010.2	6346.6	6189.9
27.5°	5322.3	8517.3	6536.7	5958.3	5792.8
30°	5550.5	8130.0	6096.8	5490.1	5284.8
32.5°	5860.5	7572.6	5643.2	4924.8	4694.6
35°	6243.8	6982.8	5107.0	4253.1	4004.3
37.5°	6662.0	6327.9	4456.3	3658.2	3513.4
40°	7112.0	5653.2	3685.2	3101.6	2997.9
42.5°	7463.1	4919.6	2968.8	2577.5	2467.2
45°	7642.1	3984.5	2352.5	2070.1	1983.1
47.5°	7572.4	3093.0	1865.0	1644.8	1618.7
50°	7165.6	2283.8	1492.9	1354.9	1344.1
52.5°	6529.6	1702.2	1233.2	1147.8	1129.2
55°	5651.6	1351.1	1070.9	992.6	989.5
57.5°	4745.0	1147.8	972.1	911.4	890.3
60°	3778.0	1023.5	897.2	828.7	785.8
62.5°	2961.4	936.5	842.1	749.1	709.1
65°	2265.8	855.3	787.8	674.2	639.8
67.5°	1689.0	778.0	721.6	595.4	575.3
70°	1230.6	698.7	646.0	529.5	513.7
72.5°	877.1	619.5	570.5	467.7	450.2
75°	603.2	531.9	487.9	402.6	386.3
77.5°	407.0	442.5	406.6	343.7	336.9
80°	271.8	350.9	328.8	291.2	287.1
82.5°	164.9	254.8	259.5	236.8	225.4
85°	89.8	164.9	194.4	177.2	160.7
87.5°	35.2	91.4	134.0	120.3	113.3
90°	3.3	20.8	28.3	37.5	41.7
92.5°	10.8	27.5	45.8	63.3	70.0
95°	31.7	68.3	107.5	139.2	159.2
97.5°	162.5	177.5	198.3	235.0	248.3
100°	335.0	351.7	295.0	309.2	314.2
102.5°	524.2	523.3	378.3	341.7	336.7
105°	617.5	611.7	521.7	367.5	339.2



TEST NUMBER: P828010

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	501.7	505.0	495.0	481.7	460.8
115°	427.5	432.5	431.7	426.7	425.8
117.5°	364.2	366.7	368.3	366.7	367.5
120°	304.2	310.0	313.3	310.8	309.2
122.5°	254.2	261.7	265.8	263.3	261.7
125°	208.3	218.3	224.2	223.3	221.7
127.5°	176.7	184.2	191.7	190.8	189.2
130°	153.3	159.2	164.2	165.0	165.8
132.5°	137.5	140.0	145.0	145.8	147.5
135°	123.3	125.8	130.0	131.7	132.5
137.5°	112.5	115.0	118.3	120.0	120.8
140°	103.3	105.8	108.3	110.0	110.8
142.5°	95.8	98.3	100.8	101.7	102.5
145°	90.0	91.7	94.2	95.0	95.0
147.5°	84.2	85.8	87.5	89.2	89.2
150°	79.2	80.8	82.5	83.3	84.2
152.5°	75.8	76.7	78.3	79.2	79.2
155°	71.7	73.3	74.2	75.0	75.0
157.5°	69.2	70.0	70.8	71.7	71.7
160°	66.7	66.7	67.5	68.3	68.3
162.5°	64.2	64.2	65.0	65.8	65.8
165°	61.7	62.5	62.5	63.3	63.3
167.5°	60.0	60.0	60.8	60.8	61.7
170°	58.3	58.3	59.2	59.2	59.2
172.5°	56.7	57.5	57.5	57.5	57.5
175°	55.8	55.8	56.7	56.7	56.7
177.5°	55.0	55.8	55.8	55.8	55.8
180°	55.8	55.8	55.8	55.8	55.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	623.3	623.3	575.0	446.7	374.2
110°	570.8	577.5	552.5	502.5	445.0



(END OF REPORT)