

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: P827989

Luminaire Tested: **OHBL-15SE-W-UNV-L935-CD-UPL15**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827989  
REPORT IS A COMBINATION OF REPORTS P826118 AND G3-2310-221-10  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-15SE-W-UNV-L935-CD-UPL15  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

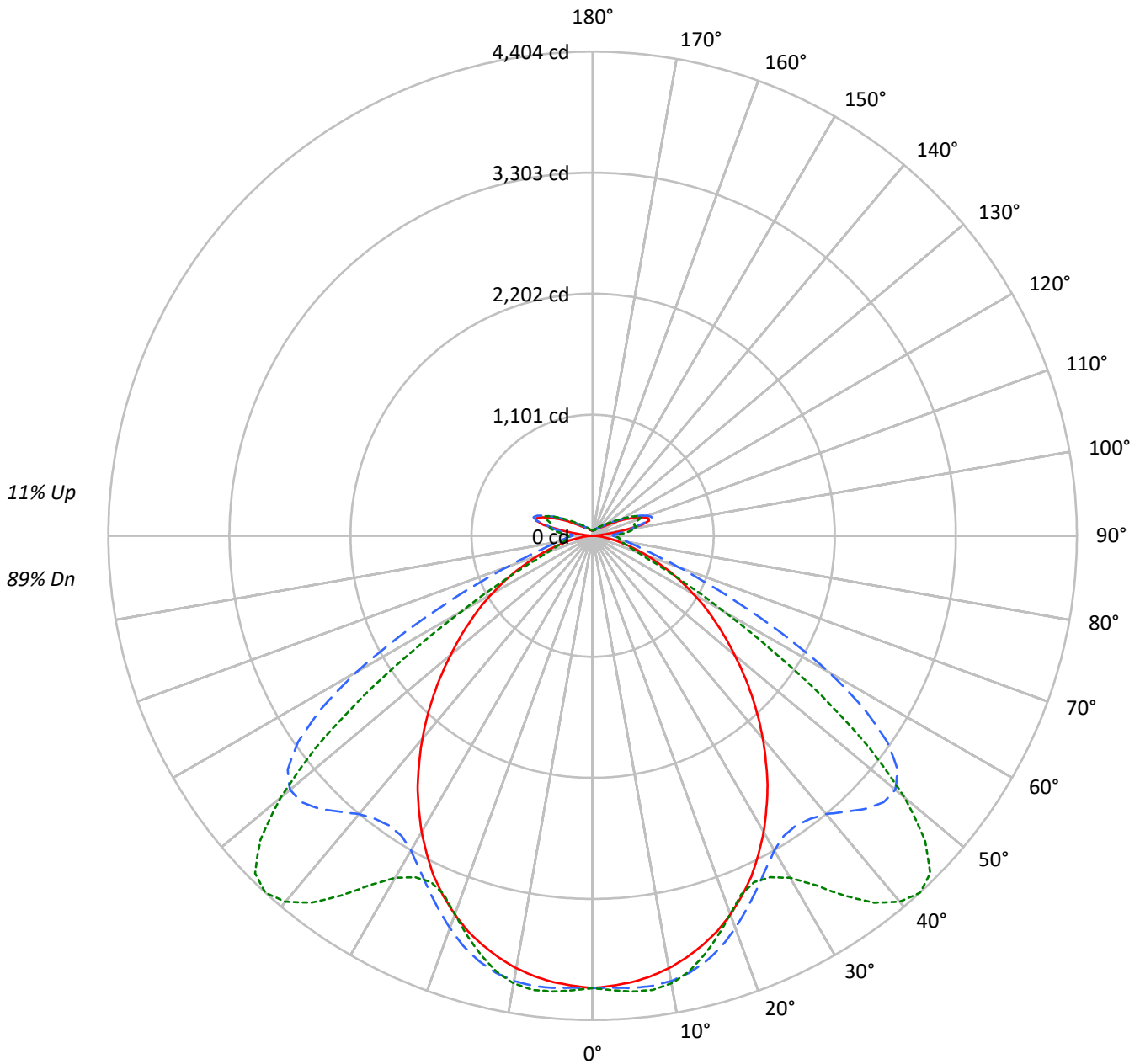
Lumens per Lamp: N/A  
Luminaire Lumens: 13583.5 lumens  
Efficiency: N/A  
Efficacy: 139.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 97.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P827989

CATALOG NUMBER: OHBL-15SE-W-UNV-L935-CD-UPL15

### Luminous Intensity Polar Plot





TEST NUMBER: P827989

CATALOG NUMBER: OHBL-15SE-W-UNV-L935-CD-UPL15

**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	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°	13384	13384	13384
5°	13092	13291	13536
10°	12765	13198	13552
15°	12358	12908	13118
20°	11865	12394	12475
25°	11265	11791	12225
30°	10528	11325	13156
35°	9719	11458	15394
40°	8817	12318	17797
45°	7892	13860	19129
50°	6949	15183	17802
55°	6063	14998	13602
60°	5176	12521	8317
65°	4264	8502	5037
70°	3281	5376	3637
75°	2308	3735	3372
80°	1462	3127	3804
85°	782	3158	6014



TEST NUMBER: P827989

CATALOG NUMBER: OHBL-15SE-W-UNV-L935-CD-UPL15

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.1	2.9
10°-20°	1113.2	8.2
20°-30°	1629.0	12.0
30°-40°	2115.6	15.6
40°-50°	2583.4	19.0
50°-60°	2275.1	16.7
60°-70°	1185.6	8.7
70°-80°	508.4	3.7
80°-90°	247.4	1.8
90°-100°	236.1	1.7
100°-110°	491.8	3.6
110°-120°	403.5	3.0
120°-130°	196.3	1.4
130°-140°	98.2	0.7
140°-150°	55.9	0.4
150°-160°	31.3	0.2
160°-170°	15.2	0.1
170°-180°	4.6	0.0
0°-30°	3135.3	23.1
0°-40°	5250.9	38.7
0°-60°	10109.4	74.4
0°-90°	12050.7	88.7
90°-120°	1131.3	8.3
90°-150°	1481.7	10.9
90°-180°	1533.0	11.3
0°-180°	13583.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4114	4114	4114	4114	4114	
5°	4076	4107	4129	4165	4161	386
15°	3856	3965	4003	3973	3941	1086
25°	3417	3600	3539	3472	3476	1568
35°	2774	3066	3220	3755	3996	1729
45°	2042	2570	3512	4252	4341	1575
55°	1360	2251	3271	2868	2549	1220
65°	780	1559	1497	832	716	772
75°	314	730	481	329	312	343
85°	67	260	245	240	242	74
90°	3	112	186	216	225	6
95°	25	115	218	269	293	84
105°	531	551	527	414	390	503
115°	369	381	418	428	422	372
125°	182	195	221	228	228	171
135°	110	113	124	136	137	87
145°	83	83	85	92	94	53
155°	68	69	69	69	70	31
165°	52	52	53	53	53	15
175°	48	48	48	48	48	5
180°	48	48	48	48	48	



TEST NUMBER: P827989

CATALOG NUMBER: OHBL-15SE-W-UNV-L935-CD-UPL15

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4113.8	4113.8	4113.8	4113.8	4113.8
2.5°	4096.1	4113.8	4114.7	4139.6	4136.9
5°	4075.7	4106.8	4128.9	4165.3	4160.8
7.5°	4041.9	4090.8	4129.8	4169.8	4166.2
10°	3994.0	4060.6	4112.1	4144.9	4134.3
12.5°	3931.8	4019.8	4070.3	4077.4	4057.0
15°	3856.4	3964.8	4002.9	3972.7	3940.8
17.5°	3771.2	3898.2	3911.4	3845.8	3805.8
20°	3664.8	3809.4	3796.1	3705.6	3661.2
22.5°	3546.7	3711.8	3669.2	3574.2	3531.6
25°	3417.1	3599.9	3538.7	3472.1	3475.7
27.5°	3265.3	3473.0	3413.5	3443.8	3500.5
30°	3110.9	3339.8	3303.5	3479.3	3591.1
32.5°	2941.3	3203.2	3236.0	3583.1	3765.9
35°	2773.6	3066.5	3220.1	3755.3	3995.8
37.5°	2588.1	2928.1	3245.8	3954.1	4206.2
40°	2407.9	2793.2	3304.3	4132.5	4345.5
42.5°	2224.2	2672.4	3402.9	4238.1	4404.1
45°	2042.2	2569.5	3512.1	4252.2	4341.0
47.5°	1860.3	2482.5	3587.5	4139.6	4098.8
50°	1684.6	2405.3	3592.8	3868.8	3702.0
52.5°	1520.4	2334.2	3495.2	3437.5	3178.3
55°	1359.8	2250.8	3270.7	2867.7	2549.1
57.5°	1213.3	2135.5	2924.5	2255.3	1907.3
60°	1058.0	1979.2	2477.2	1650.0	1375.8
62.5°	915.1	1784.8	1975.7	1148.5	988.8
65°	780.2	1559.4	1497.3	832.5	716.2
67.5°	637.3	1326.0	1105.0	607.1	532.5
70°	525.4	1109.4	822.8	472.2	428.7
72.5°	410.9	903.5	615.1	383.4	359.5
75°	314.2	729.6	481.1	329.3	312.4
77.5°	231.7	576.9	387.0	291.1	275.2
80°	162.4	454.4	323.9	260.1	253.8
82.5°	109.2	351.5	276.0	247.7	248.5
85°	66.6	260.1	245.0	239.7	242.3
87.5°	31.9	184.6	210.3	218.3	221.0
90°	3.4	112.4	185.7	216.2	224.9
92.5°	8.3	95.2	180.3	218.4	231.2
95°	25.1	115.0	217.8	269.3	292.8
97.5°	140.1	201.1	285.4	334.3	351.9
100°	283.5	342.4	352.1	386.8	395.3
102.5°	454.3	471.2	414.8	401.8	398.6
105°	531.1	551.1	526.8	413.7	389.6



TEST NUMBER: P827989

CATALOG NUMBER: OHBL-15SE-W-UNV-L935-CD-UPL15

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	429.5	451.3	481.1	478.5	465.2
115°	368.7	381.1	418.2	428.0	422.2
117.5°	317.9	326.0	358.6	367.6	366.8
120°	266.2	276.7	303.2	312.2	312.2
122.5°	221.2	232.3	260.4	267.8	267.8
125°	182.1	194.8	221.0	228.2	228.2
127.5°	155.3	162.1	188.2	197.1	196.3
130°	135.3	139.5	160.5	170.2	171.9
132.5°	121.2	124.5	141.1	150.8	153.4
135°	109.5	112.8	124.2	135.7	137.3
137.5°	101.2	102.8	112.3	122.1	124.7
140°	92.8	95.3	101.4	111.1	112.8
142.5°	87.9	88.7	93.0	101.8	102.7
145°	82.9	82.8	85.4	92.3	94.2
147.5°	78.8	79.6	81.2	84.8	86.5
150°	74.6	76.2	75.3	77.9	79.8
152.5°	71.2	72.1	72.0	72.0	74.6
155°	67.9	68.8	68.7	68.7	69.5
157.5°	58.3	59.2	60.0	60.8	60.8
160°	55.8	56.7	57.5	57.5	58.3
162.5°	54.2	55.0	55.0	55.8	55.8
165°	52.5	52.5	53.3	53.3	53.3
167.5°	50.8	50.8	51.7	51.7	52.5
170°	49.2	50.0	50.0	50.0	50.8
172.5°	48.3	48.3	49.2	49.2	49.2
175°	47.5	47.5	47.5	48.3	48.3
177.5°	46.7	47.5	47.5	47.5	47.5
180°	47.5	47.5	47.5	47.5	47.5



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	531.9	555.8	563.8	466.3	407.2
110°	491.1	514.8	534.8	506.6	456.7



(END OF REPORT)