

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: P827717

Luminaire Tested: **OHBL-18SE-MFL-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827717
REPORT IS A COMBINATION OF REPORTS P826235 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-18SE-MFL-UNV-L930-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

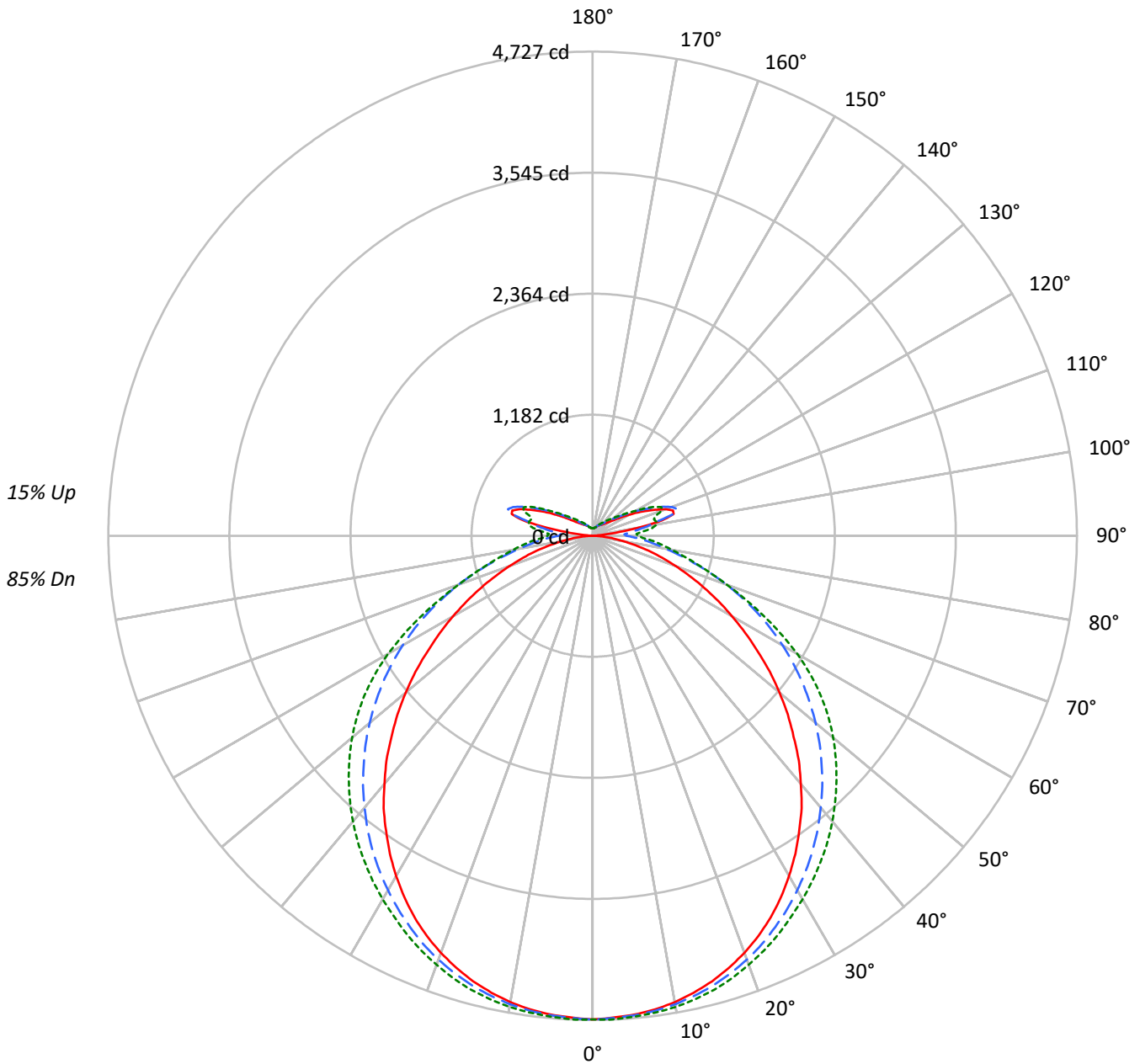
Lumens per Lamp: N/A
Luminaire Lumens: 16089.3 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 122.4
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: P827717

CATALOG NUMBER: OHBL-18SE-MFL-UNV-L930-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P827717

CATALOG NUMBER: OHBL-18SE-MFL-UNV-L930-CD-UPL24

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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85																			
1	105	100	96	92	101	96	92	89	89	86	83	83	80	78	77	75	73	70																			
2	95	87	80	74	91	84	78	72	78	73	68	72	68	65	67	64	61	58																			
3	87	76	68	62	83	74	66	60	68	62	57	64	59	54	59	55	52	49																			
4	79	67	59	52	76	65	57	51	61	54	49	57	51	46	53	48	44	42																			
5	73	60	51	45	70	58	50	44	54	47	42	51	45	40	48	43	38	36																			
6	67	54	45	39	64	52	44	38	49	42	37	46	40	35	43	38	34	31																			
7	62	49	40	34	60	47	39	34	45	38	32	42	36	31	39	34	30	28																			
8	58	45	36	30	56	43	35	30	41	34	29	38	32	28	36	31	27	25																			
9	54	41	33	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22																			
10	51	38	30	25	49	37	29	24	35	28	24	33	27	23	31	26	22	20																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8066	8066	8066
5°	7975	7986	8048
10°	7881	7911	8039
15°	7754	7824	8018
20°	7599	7717	7972
25°	7404	7585	7926
30°	7150	7442	7882
35°	6851	7290	7852
40°	6499	7114	7827
45°	6093	6924	7789
50°	5652	6731	7738
55°	5122	6495	7618
60°	4580	6218	7317
65°	3992	5865	6776
70°	3360	5415	6198
75°	2716	4896	5895
80°	1936	4510	6174
85°	1078	4645	7740



TEST NUMBER: P827717

CATALOG NUMBER: OHBL-18SE-MFL-UNV-L930-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.5	2.8
10°-20°	1283.7	8.0
20°-30°	1941.4	12.1
30°-40°	2330.6	14.5
40°-50°	2407.2	15.0
50°-60°	2165.7	13.5
60°-70°	1631.4	10.1
70°-80°	985.1	6.1
80°-90°	486.8	3.0
90°-100°	390.2	2.4
100°-110°	766.4	4.8
110°-120°	626.1	3.9
120°-130°	306.2	1.9
130°-140°	154.2	1.0
140°-150°	87.5	0.5
150°-160°	48.9	0.3
160°-170°	23.5	0.1
170°-180°	7.1	0.0
0°-30°	3672.5	22.8
0°-40°	6003.1	37.3
0°-60°	10576.0	65.7
0°-90°	13679.2	85.0
90°-120°	1782.7	11.1
90°-150°	2330.6	14.5
90°-180°	2410.0	15.0
0°-180°	16089.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4722	4722	4722	4722	4722	
5°	4692	4705	4699	4718	4712	446
15°	4503	4525	4545	4584	4588	1269
25°	4112	4157	4216	4282	4292	1891
35°	3516	3598	3746	3859	3882	2198
45°	2775	2915	3159	3331	3367	2142
55°	1966	2169	2499	2687	2719	1763
65°	1200	1445	1768	1856	1835	1192
75°	565	811	1024	1050	1040	603
85°	118	311	513	584	594	136
90°	4	149	332	420	441	10
95°	49	172	359	464	499	138
105°	819	849	809	652	620	777
115°	569	592	644	669	668	574
125°	282	300	341	361	362	265
135°	170	175	195	214	220	134
145°	129	131	134	144	149	81
155°	105	108	109	108	109	47
165°	81	82	82	82	82	23
175°	73	74	74	74	74	7
180°	73	73	73	73	73	



TEST NUMBER: P827717

CATALOG NUMBER: OHBL-18SE-MFL-UNV-L930-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4722.3	4722.3	4722.3	4722.3	4722.3
2.5°	4708.4	4719.9	4713.0	4728.0	4726.9
5°	4692.2	4704.9	4699.2	4717.6	4711.9
7.5°	4664.5	4678.3	4677.2	4698.0	4695.7
10°	4624.0	4639.0	4643.6	4671.4	4671.4
12.5°	4568.5	4588.2	4599.7	4633.3	4634.4
15°	4502.7	4524.6	4545.4	4583.6	4588.2
17.5°	4423.0	4450.7	4479.5	4523.4	4529.3
20°	4332.7	4363.9	4403.2	4449.5	4456.4
22.5°	4228.8	4265.7	4316.6	4370.9	4379.0
25°	4112.1	4157.1	4216.0	4281.9	4292.3
27.5°	3979.1	4031.2	4110.9	4184.8	4194.1
30°	3834.7	3895.9	3995.3	4083.1	4098.2
32.5°	3682.1	3752.6	3875.2	3973.4	3994.1
35°	3515.7	3597.7	3745.7	3858.9	3882.0
37.5°	3351.6	3441.7	3609.3	3738.7	3766.5
40°	3159.7	3271.8	3463.7	3607.0	3640.5
42.5°	2979.4	3100.8	3318.0	3474.1	3506.5
45°	2774.8	2914.7	3158.6	3330.7	3366.6
47.5°	2583.0	2734.4	3004.9	3182.8	3219.8
50°	2380.8	2547.2	2840.7	3026.8	3065.0
52.5°	2178.5	2357.7	2670.9	2863.8	2899.7
55°	1965.9	2169.2	2498.6	2687.1	2719.4
57.5°	1768.2	1983.2	2321.9	2501.0	2520.6
60°	1572.9	1796.0	2141.5	2298.7	2305.7
62.5°	1382.2	1616.8	1956.7	2081.5	2072.2
65°	1199.6	1444.7	1768.2	1856.1	1835.2
67.5°	1024.0	1277.1	1575.2	1631.9	1604.1
70°	857.6	1114.1	1388.0	1416.9	1391.5
72.5°	710.8	959.2	1198.5	1222.8	1204.3
75°	565.1	811.3	1024.0	1050.5	1040.2
77.5°	428.7	668.0	863.3	898.0	900.3
80°	308.5	537.4	723.5	777.8	784.7
82.5°	203.4	417.2	606.7	676.1	686.5
85°	117.9	310.9	513.1	583.6	594.0
87.5°	50.8	224.2	412.6	476.2	488.9
90°	4.0	148.8	331.6	419.9	440.6
92.5°	17.2	136.9	310.2	403.8	427.0
95°	48.6	171.8	358.7	464.0	498.7
97.5°	224.4	304.6	443.7	550.2	587.3
100°	453.2	533.7	547.6	618.0	634.5
102.5°	696.5	738.7	644.0	635.0	636.6
105°	818.8	849.2	809.4	652.2	619.6



TEST NUMBER: P827717

CATALOG NUMBER: OHBL-18SE-MFL-UNV-L930-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	662.3	694.0	737.8	749.2	728.0
115°	568.6	591.6	643.6	668.6	668.3
117.5°	489.0	502.5	551.9	576.5	580.8
120°	406.5	424.6	473.5	492.6	492.4
122.5°	342.7	358.1	401.1	421.5	420.1
125°	282.4	300.5	340.8	360.8	361.8
127.5°	239.3	252.1	290.2	311.9	314.5
130°	209.4	217.0	250.5	271.0	275.2
132.5°	186.7	194.7	218.8	240.6	244.4
135°	169.8	175.3	194.8	213.8	220.0
137.5°	156.0	160.8	174.8	193.4	198.0
140°	145.0	149.5	159.2	174.8	180.2
142.5°	135.7	139.0	144.4	158.8	162.2
145°	128.8	130.9	134.4	144.4	148.7
147.5°	121.5	124.7	126.3	132.6	136.0
150°	115.8	118.6	119.9	121.8	126.1
152.5°	110.2	112.9	114.2	113.9	116.2
155°	105.3	108.1	108.6	108.2	109.4
157.5°	89.7	91.3	93.0	93.8	93.8
160°	86.5	87.3	88.9	89.7	89.7
162.5°	83.3	84.1	84.9	85.7	85.7
165°	80.8	81.6	82.4	82.4	82.4
167.5°	78.4	78.4	79.2	80.0	80.0
170°	76.0	76.8	76.8	77.6	77.6
172.5°	74.4	75.2	75.2	75.2	76.0
175°	72.8	73.6	73.6	74.4	74.4
177.5°	72.8	72.8	72.8	72.8	72.8
180°	72.8	72.8	72.8	72.8	72.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	822.1	858.9	866.3	737.2	644.4
110°	759.0	795.2	821.3	791.4	717.9



(END OF REPORT)