

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: P828282

Luminaire Tested: **OHBL-15SE-MCL-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828282
REPORT IS A COMBINATION OF REPORTS P826222 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-15SE-MCL-UNV-L940-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

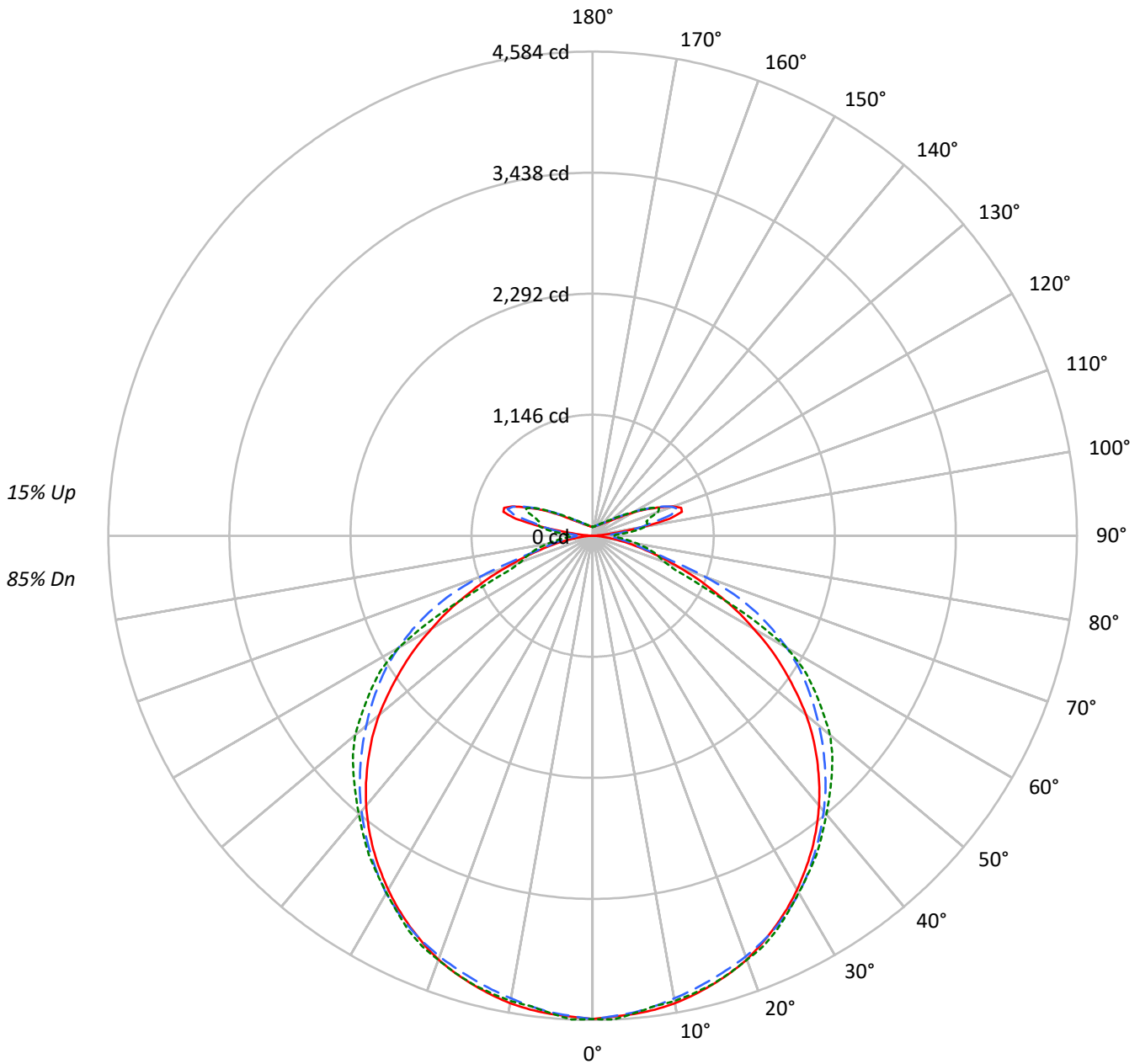
Lumens per Lamp: N/A
Luminaire Lumens: 15035.5 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 104.4
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: P828282

CATALOG NUMBER: OHBL-15SE-MCL-UNV-L940-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P828282

CATALOG NUMBER: OHBL-15SE-MCL-UNV-L940-CD-UPL24

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85			
1	106	101	97	93	102	97	94	90	91	88	85	84	82	80	78	76	75	72			
2	96	88	82	76	92	85	79	74	79	75	70	74	70	67	69	66	63	60			
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	61	57	54	51			
4	80	69	60	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43			
5	74	61	53	46	71	60	51	45	56	49	44	52	46	42	49	44	40	38			
6	68	55	47	40	65	54	45	40	50	43	38	47	41	37	44	39	35	33			
7	63	50	42	36	61	48	41	35	46	39	34	43	37	32	40	35	31	29			
8	59	46	37	32	56	44	36	31	42	35	30	39	33	29	37	32	28	26			
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23			
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	32	27	23	21			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14884	14884	14884
5°	14600	14581	14761
10°	14365	14274	14659
15°	14093	14026	14624
20°	13821	13838	14559
25°	13469	13648	14498
30°	13099	13396	14296
35°	12689	13047	14221
40°	12208	12686	14099
45°	11614	12277	14103
50°	10882	11819	14105
55°	9860	11354	13710
60°	8612	10723	12828
65°	7093	9676	8258
70°	5411	7374	6117
75°	3752	4232	6412
80°	2306	3340	6464
85°	1034	2788	6798



TEST NUMBER: P828282

CATALOG NUMBER: OHBL-15SE-MCL-UNV-L940-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.4	2.9
10°-20°	1237.0	8.2
20°-30°	1889.3	12.6
30°-40°	2292.4	15.2
40°-50°	2402.6	16.0
50°-60°	2177.1	14.5
60°-70°	1459.7	9.7
70°-80°	655.5	4.4
80°-90°	243.2	1.6
90°-100°	273.2	1.8
100°-110°	733.6	4.9
110°-120°	617.3	4.1
120°-130°	297.3	2.0
130°-140°	150.5	1.0
140°-150°	87.8	0.6
150°-160°	51.9	0.3
160°-170°	27.3	0.2
170°-180°	8.3	0.1
0°-30°	3557.7	23.7
0°-40°	5850.1	38.9
0°-60°	10429.9	69.4
0°-90°	12788.3	85.1
90°-120°	1624.0	10.8
90°-150°	2159.7	14.4
90°-180°	2247.0	14.9
0°-180°	15035.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4575	4575	4575	4575	4575	
5°	4545	4561	4530	4543	4537	432
15°	4398	4381	4350	4388	4393	1242
25°	4086	4068	4096	4134	4122	1883
35°	3621	3630	3667	3706	3691	2263
45°	3005	3054	3111	3190	3200	2315
55°	2211	2318	2476	2575	2569	1974
65°	1298	1501	1704	1438	1174	1293
75°	511	741	545	558	594	558
85°	88	169	216	261	274	107
90°	5	86	153	194	207	8
95°	47	132	226	292	320	144
105°	875	878	772	568	528	831
115°	607	616	627	630	627	612
125°	298	315	328	329	327	280
135°	180	184	191	196	198	142
145°	132	136	139	140	142	84
155°	108	110	112	112	112	50
165°	94	95	96	96	96	27
175°	86	86	86	86	86	8
180°	85	85	85	85	85	



TEST NUMBER: P828282

CATALOG NUMBER: OHBL-15SE-MCL-UNV-L940-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4575.1	4575.1	4575.1	4575.1	4575.1
2.5°	4556.6	4575.7	4551.9	4577.7	4584.3
5°	4545.3	4561.2	4529.5	4543.4	4537.4
7.5°	4524.8	4530.1	4492.4	4503.6	4491.7
10°	4494.4	4491.7	4447.4	4469.2	4471.9
12.5°	4449.4	4441.5	4401.7	4434.9	4435.5
15°	4397.8	4380.6	4349.5	4387.9	4393.1
17.5°	4338.3	4315.7	4295.2	4344.9	4337.0
20°	4268.8	4242.4	4238.4	4292.6	4272.8
22.5°	4182.8	4162.3	4171.6	4223.2	4210.5
25°	4085.5	4067.7	4096.1	4133.9	4121.9
27.5°	3983.0	3972.4	4004.8	4034.0	4010.8
30°	3870.6	3864.6	3907.6	3931.5	3902.3
32.5°	3748.2	3750.2	3791.2	3823.6	3796.5
35°	3621.1	3629.8	3666.8	3705.8	3691.3
37.5°	3481.6	3500.7	3537.9	3582.1	3566.9
40°	3334.1	3361.9	3402.8	3456.5	3442.6
42.5°	3174.6	3209.7	3262.6	3322.1	3320.8
45°	3005.3	3054.3	3111.1	3190.5	3200.4
47.5°	2829.3	2884.2	2956.4	3062.2	3077.4
50°	2638.2	2706.9	2796.9	2923.9	2933.2
52.5°	2425.1	2519.0	2638.2	2759.9	2748.7
55°	2211.4	2317.9	2476.1	2575.3	2569.4
57.5°	1998.4	2118.2	2310.0	2380.8	2380.2
60°	1760.3	1911.8	2121.5	2175.1	2122.1
62.5°	1540.0	1702.7	1920.4	1881.4	1700.1
65°	1297.9	1501.0	1704.1	1438.1	1174.2
67.5°	1082.9	1294.6	1447.5	985.0	843.4
70°	866.6	1100.1	1128.5	730.9	721.0
72.5°	674.8	923.5	778.6	625.8	657.6
75°	510.7	740.9	545.1	557.7	594.0
77.5°	372.5	568.9	424.0	488.9	518.6
80°	256.1	402.9	346.0	410.8	431.3
82.5°	160.8	266.0	277.2	330.7	352.0
85°	88.0	168.7	216.3	261.3	273.9
87.5°	36.3	101.9	165.4	201.8	212.3
90°	5.0	85.8	152.7	194.1	206.8
92.5°	15.5	82.2	153.9	201.8	217.7
95°	46.8	131.5	226.3	291.5	320.2
97.5°	235.2	280.8	336.3	406.9	438.3
100°	481.9	532.6	464.8	499.6	509.3
102.5°	744.2	755.8	582.3	535.9	531.0
105°	874.7	877.7	771.5	568.2	527.6



TEST NUMBER: P828282

CATALOG NUMBER: OHBL-15SE-MCL-UNV-L940-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	707.1	722.2	721.6	707.5	680.9
115°	607.0	615.7	627.0	630.5	626.6
117.5°	520.0	522.2	535.6	538.7	540.9
120°	431.3	441.5	457.9	456.9	452.4
122.5°	362.6	373.1	385.6	387.2	382.6
125°	298.5	314.8	327.5	328.7	326.7
127.5°	254.0	265.3	279.3	282.1	281.9
130°	221.8	229.4	241.4	244.9	245.8
132.5°	198.1	204.8	212.9	219.0	218.1
135°	179.8	184.0	190.8	195.8	198.1
137.5°	165.7	168.3	173.5	179.5	180.1
140°	152.7	156.2	159.8	164.2	165.8
142.5°	140.7	144.8	147.6	151.4	152.1
145°	132.0	136.2	138.8	140.3	141.8
147.5°	124.9	128.3	130.1	131.8	132.5
150°	118.8	120.5	123.1	124.0	124.9
152.5°	112.7	114.4	117.0	117.9	117.9
155°	107.5	109.9	111.6	112.5	111.8
157.5°	103.1	105.6	107.3	108.2	108.2
160°	99.6	101.2	102.9	103.8	103.8
162.5°	96.9	97.7	98.6	99.5	99.5
165°	94.2	95.1	96.0	96.0	96.0
167.5°	91.6	92.2	92.5	93.4	93.4
170°	89.0	89.9	89.9	90.1	90.1
172.5°	87.3	88.2	88.2	87.5	88.3
175°	85.6	86.4	85.7	85.9	85.9
177.5°	86.2	85.6	84.9	84.2	83.6
180°	84.9	84.9	84.9	84.9	84.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	878.8	891.6	843.6	672.9	568.1
110°	811.7	826.1	803.5	742.5	658.7



(END OF REPORT)