

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: P826938

Luminaire Tested: **OHB-15SE-MCL-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826938
REPORT IS A COMBINATION OF REPORTS P826186 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: OHB-15SE-MCL-UNV-L840-CD-UPL24
Description: 15000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

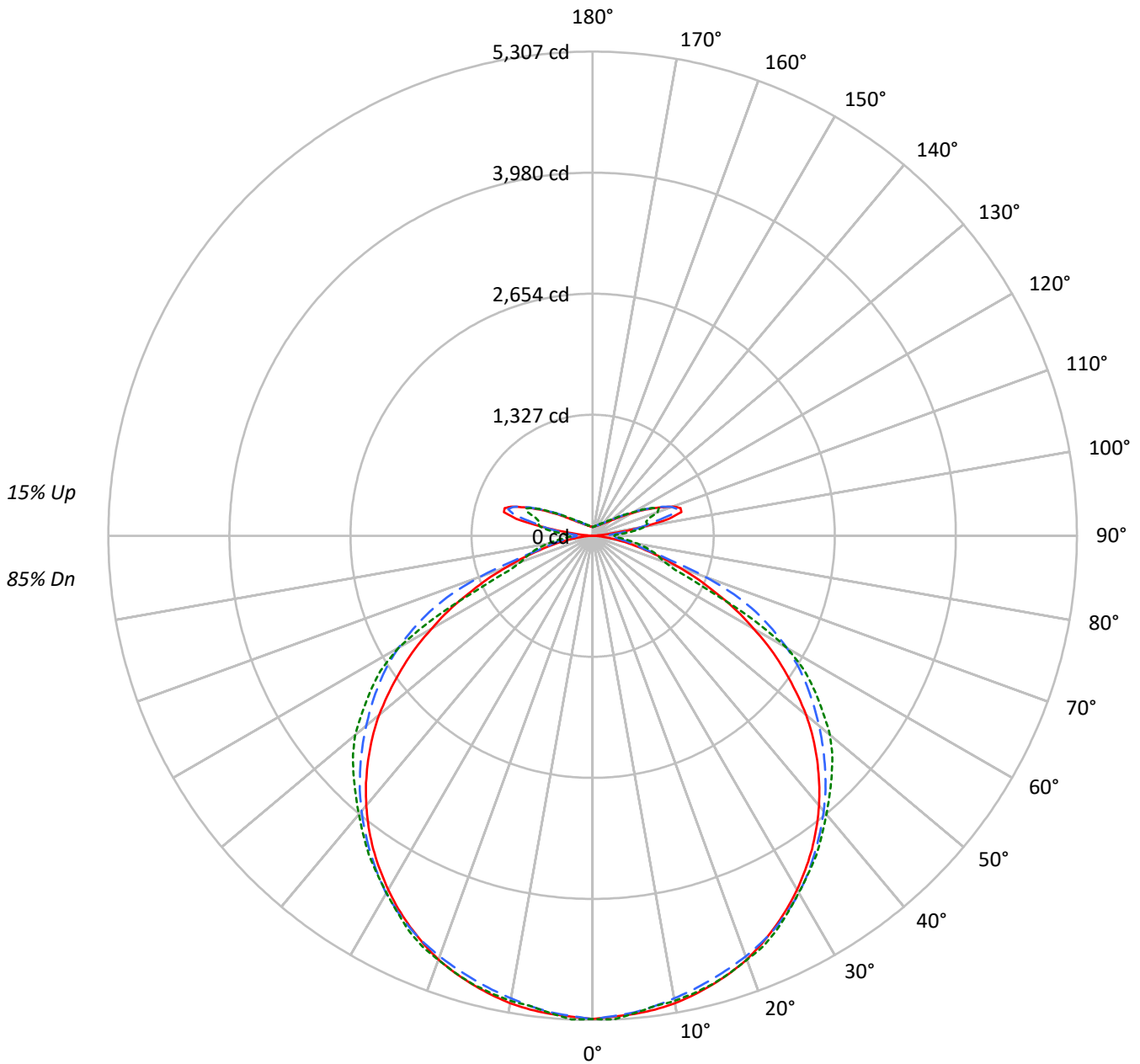
Lumens per Lamp: N/A
Luminaire Lumens: 17390.3 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 114.5
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: P826938

CATALOG NUMBER: OHB-15SE-MCL-UNV-L840-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P826938

CATALOG NUMBER: OHB-15SE-MCL-UNV-L840-CD-UPL24

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	116	116	116	116	111	111	111	111	103	103	103	95	95	95	88	88	88	85			
1	106	101	97	93	102	97	94	91	91	88	85	84	82	80	78	77	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	61	56	61	57	54	51			
4	80	69	60	54	77	67	59	53	62	56	51	58	53	48	54	50	46	44			
5	74	62	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	49	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°	33700	33700	33700
5°	33058	32928	33299
10°	32524	32156	32947
15°	31909	31517	32745
20°	31292	31015	32474
25°	30496	30508	32206
30°	29659	29863	31618
35°	28730	29000	31304
40°	27641	28106	30869
45°	26297	27105	30693
50°	24638	25991	30481
55°	22326	24854	29378
60°	19499	23343	27201
65°	16060	20921	17272
70°	12251	15807	12555
75°	8495	8965	12791
80°	5220	6956	12287
85°	2341	5648	11656



TEST NUMBER: P826938

CATALOG NUMBER: OHB-15SE-MCL-UNV-L840-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.4	2.9
10°-20°	1432.0	8.2
20°-30°	2187.2	12.6
30°-40°	2653.8	15.3
40°-50°	2781.4	16.0
50°-60°	2520.4	14.5
60°-70°	1689.8	9.7
70°-80°	758.8	4.4
80°-90°	281.5	1.6
90°-100°	314.7	1.8
100°-110°	844.0	4.9
110°-120°	710.1	4.1
120°-130°	342.1	2.0
130°-140°	173.2	1.0
140°-150°	101.1	0.6
150°-160°	59.7	0.3
160°-170°	31.4	0.2
170°-180°	9.6	0.1
0°-30°	4118.6	23.7
0°-40°	6772.4	38.9
0°-60°	12074.3	69.4
0°-90°	14804.4	85.1
90°-120°	1868.8	10.7
90°-150°	2485.1	14.3
90°-180°	2586.0	14.9
0°-180°	17390.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5296	5296	5296	5296	5296	
5°	5262	5280	5244	5260	5253	500
15°	5091	5071	5035	5080	5086	1437
25°	4730	4709	4742	4786	4772	2180
35°	4192	4202	4245	4290	4273	2620
45°	3479	3536	3602	3694	3705	2680
55°	2560	2683	2866	2981	2974	2285
65°	1502	1738	1973	1665	1359	1497
75°	591	858	631	646	688	646
85°	102	195	250	302	317	124
90°	6	99	176	224	239	10
95°	54	152	261	336	369	166
105°	1006	1010	888	654	607	955
115°	698	708	721	725	721	704
125°	343	362	377	378	376	322
135°	207	212	219	225	228	164
145°	152	157	160	161	163	97
155°	124	126	128	129	129	58
165°	108	109	110	110	110	31
175°	98	99	99	99	99	10
180°	98	98	98	98	98	



TEST NUMBER: P826938

CATALOG NUMBER: OHB-15SE-MCL-UNV-L840-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5296.4	5296.4	5296.4	5296.4	5296.4
2.5°	5275.0	5297.2	5269.6	5299.5	5307.1
5°	5261.9	5280.3	5243.6	5259.6	5252.7
7.5°	5238.2	5244.3	5200.7	5213.7	5199.9
10°	5203.0	5199.9	5148.6	5173.9	5176.9
12.5°	5150.9	5141.7	5095.8	5134.0	5134.8
15°	5091.2	5071.2	5035.3	5079.7	5085.8
17.5°	5022.2	4996.2	4972.5	5029.9	5020.7
20°	4941.8	4911.2	4906.6	4969.4	4946.4
22.5°	4842.3	4818.5	4829.2	4889.0	4874.4
25°	4729.7	4709.0	4741.9	4785.6	4771.8
27.5°	4611.0	4598.7	4636.3	4670.0	4643.2
30°	4480.8	4473.9	4523.7	4551.3	4517.6
32.5°	4339.1	4341.4	4388.9	4426.4	4395.0
35°	4192.1	4202.0	4244.9	4290.1	4273.3
37.5°	4030.5	4052.7	4095.6	4146.9	4129.3
40°	3859.7	3891.9	3939.4	4001.4	3985.3
42.5°	3675.2	3715.7	3777.0	3845.9	3844.4
45°	3479.1	3535.8	3601.6	3693.5	3705.0
47.5°	3275.4	3339.0	3422.4	3545.0	3562.6
50°	3054.1	3133.7	3237.9	3384.9	3395.6
52.5°	2807.5	2916.2	3054.1	3195.0	3182.0
55°	2560.1	2683.4	2866.5	2981.3	2974.4
57.5°	2313.5	2452.1	2674.2	2756.2	2755.4
60°	2037.8	2213.2	2456.0	2518.0	2456.7
62.5°	1782.8	1971.2	2223.2	2178.0	1968.2
65°	1502.5	1737.6	1972.7	1664.9	1359.3
67.5°	1253.6	1498.7	1675.6	1140.3	976.4
70°	1003.2	1273.6	1306.5	846.2	834.7
72.5°	781.1	1069.1	901.4	724.5	761.2
75°	591.2	857.7	631.0	645.6	687.7
77.5°	431.2	658.6	490.9	565.9	600.4
80°	296.4	466.4	400.5	475.6	499.3
82.5°	186.1	307.9	320.9	382.9	407.4
85°	101.9	195.3	250.4	302.5	317.0
87.5°	42.1	117.9	191.5	233.6	245.8
90°	5.8	99.1	176.4	224.4	239.0
92.5°	17.8	94.8	177.7	233.0	251.3
95°	53.8	151.6	260.8	336.0	369.0
97.5°	270.5	323.2	387.3	468.6	504.7
100°	554.3	612.8	535.0	575.1	586.3
102.5°	856.1	869.4	670.1	616.8	611.1
105°	1006.1	1009.6	887.7	653.8	607.1



TEST NUMBER: P826938

CATALOG NUMBER: OHB-15SE-MCL-UNV-L840-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	813.4	830.7	830.0	813.9	783.5
115°	698.1	708.2	721.2	725.3	720.9
117.5°	598.1	600.7	616.1	619.7	622.3
120°	496.1	507.9	526.8	525.7	520.4
122.5°	417.1	429.1	443.6	445.4	440.1
125°	343.4	362.1	376.8	378.1	375.8
127.5°	292.1	305.1	321.3	324.6	324.3
130°	255.1	263.9	277.7	281.8	282.8
132.5°	227.9	235.7	245.0	252.0	251.0
135°	206.9	211.7	219.4	225.3	228.0
137.5°	190.7	193.7	199.7	206.5	207.3
140°	175.7	179.7	183.9	189.0	190.7
142.5°	161.9	166.7	169.9	174.2	175.0
145°	151.9	156.7	159.7	161.4	163.2
147.5°	143.7	147.7	149.7	151.7	152.4
150°	136.7	138.7	141.7	142.7	143.7
152.5°	129.7	131.7	134.7	135.7	135.7
155°	123.7	126.4	128.4	129.4	128.7
157.5°	118.7	121.4	123.4	124.4	124.4
160°	114.7	116.4	118.4	119.4	119.4
162.5°	111.4	112.4	113.4	114.4	114.4
165°	108.4	109.4	110.4	110.4	110.4
167.5°	105.4	106.2	106.4	107.4	107.4
170°	102.4	103.4	103.4	103.7	103.7
172.5°	100.4	101.4	101.4	100.7	101.7
175°	98.4	99.4	98.7	98.9	98.9
177.5°	99.2	98.4	97.7	96.9	96.1
180°	97.7	97.7	97.7	97.7	97.7



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1010.8	1025.6	970.5	774.2	653.7
110°	933.6	950.3	924.4	854.3	757.8



(END OF REPORT)