

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: P827066

Luminaire Tested: **OHBL-12SE-W-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827066
REPORT IS A COMBINATION OF REPORTS P826154 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-12SE-W-UNV-L840-CD-UPL18
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

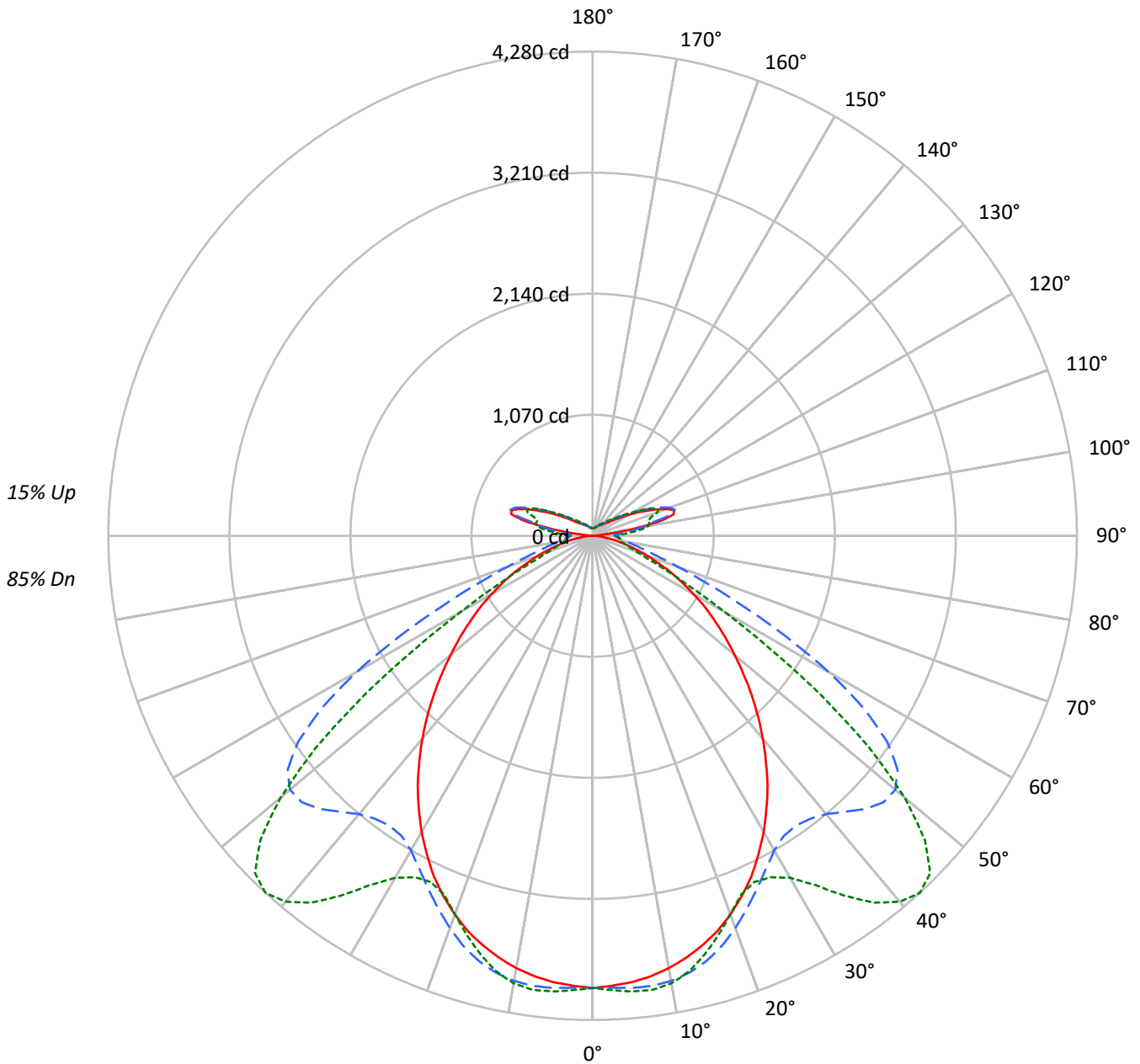
Lumens per Lamp: N/A
Luminaire Lumens: 13759.9 lumens
Efficiency: N/A
Efficacy: 167.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 82.3
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

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Luminous Intensity Polar Plot





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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	116	116	116	116	111	111	111	111	103	103	103	95	95	95	88	88	88	85				
1	106	101	97	94	102	98	94	91	91	88	85	84	82	80	78	77	75	72				
2	96	89	82	77	93	86	80	75	80	75	71	74	70	67	69	66	63	60				
3	88	78	70	64	84	75	68	62	70	64	59	66	61	57	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	61	53	46	71	59	51	45	56	49	44	52	46	42	49	44	40	38				
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	33				
7	63	50	41	35	60	48	40	35	45	38	33	43	37	32	40	35	31	29				
8	58	45	37	31	56	44	36	31	41	34	30	39	33	28	37	31	27	25				
9	54	41	33	28	52	40	33	27	38	31	26	36	30	26	34	29	25	23				
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	31	26	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13006	13006	13006
5°	12723	12916	13154
10°	12405	12826	13170
15°	12009	12544	12748
20°	11530	12045	12123
25°	10948	11458	11880
30°	10231	11006	12784
35°	9445	11135	14960
40°	8568	11971	17295
45°	7670	13469	18590
50°	6753	14754	17300
55°	5892	14575	13218
60°	5030	12167	8082
65°	4144	8262	4896
70°	3188	5225	3535
75°	2243	3629	3277
80°	1421	3039	3697
85°	760	3069	5845



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.0	2.8
10°-20°	1081.8	7.9
20°-30°	1583.0	11.5
30°-40°	2055.9	14.9
40°-50°	2510.5	18.2
50°-60°	2210.9	16.1
60°-70°	1152.1	8.4
70°-80°	494.1	3.6
80°-90°	241.8	1.8
90°-100°	282.7	2.1
100°-110°	663.9	4.8
110°-120°	551.8	4.0
120°-130°	267.6	1.9
130°-140°	133.7	1.0
140°-150°	76.5	0.6
150°-160°	43.4	0.3
160°-170°	21.5	0.2
170°-180°	6.6	0.0
0°-30°	3046.9	22.1
0°-40°	5102.7	37.1
0°-60°	9824.1	71.4
0°-90°	11712.1	85.1
90°-120°	1498.5	10.9
90°-150°	1976.3	14.4
90°-180°	2048.0	14.9
0°-180°	13759.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3998	3998	3998	3998	3998	
5°	3961	3991	4012	4048	4044	376
15°	3748	3853	3890	3861	3830	1055
25°	3321	3498	3439	3374	3378	1524
35°	2695	2980	3129	3649	3883	1680
45°	1985	2497	3413	4132	4219	1530
55°	1321	2187	3178	2787	2477	1186
65°	758	1515	1455	809	696	750
75°	305	709	468	320	304	333
85°	65	253	238	233	236	72
90°	5	116	191	224	234	7
95°	40	136	254	314	342	121
105°	744	764	707	538	506	707
115°	518	536	568	573	574	523
125°	256	271	298	306	305	240
135°	153	156	170	181	183	121
145°	115	115	119	125	127	72
155°	93	95	94	95	95	43
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3997.8	3997.8	3997.8	3997.8	3997.8
2.5°	3980.5	3997.8	3998.6	4022.8	4020.2
5°	3960.7	3990.9	4012.4	4047.8	4043.5
7.5°	3927.9	3975.3	4013.3	4052.1	4048.6
10°	3881.3	3946.0	3996.0	4027.9	4017.6
12.5°	3820.9	3906.3	3955.5	3962.4	3942.6
15°	3747.6	3852.9	3889.9	3860.6	3829.6
17.5°	3664.8	3788.2	3801.1	3737.3	3698.5
20°	3561.3	3701.9	3689.0	3601.0	3557.9
22.5°	3446.6	3607.0	3565.6	3473.4	3432.0
25°	3320.7	3498.4	3438.9	3374.2	3377.6
27.5°	3173.2	3375.0	3317.2	3346.6	3401.8
30°	3023.1	3245.6	3210.3	3381.1	3489.7
32.5°	2858.4	3112.8	3144.7	3482.0	3659.7
35°	2695.4	2980.0	3129.2	3649.3	3883.0
37.5°	2515.1	2845.4	3154.2	3842.5	4087.5
40°	2340.0	2714.3	3211.1	4015.9	4222.9
42.5°	2161.5	2597.0	3306.9	4118.5	4279.8
45°	1984.6	2497.0	3413.0	4132.3	4218.6
47.5°	1807.8	2412.5	3486.3	4022.8	3983.1
50°	1637.1	2337.4	3491.5	3759.7	3597.6
52.5°	1477.5	2268.4	3396.6	3340.5	3088.7
55°	1321.4	2187.3	3178.4	2786.8	2477.1
57.5°	1179.1	2075.2	2842.0	2191.7	1853.5
60°	1028.1	1923.4	2407.3	1603.4	1336.9
62.5°	889.3	1734.5	1920.0	1116.1	960.8
65°	758.2	1515.4	1455.1	809.0	696.1
67.5°	619.3	1288.6	1073.8	590.0	517.5
70°	510.6	1078.1	799.6	458.9	416.6
72.5°	399.3	878.0	597.7	372.6	349.3
75°	305.3	709.0	467.5	320.0	303.6
77.5°	225.1	560.6	376.1	282.9	267.4
80°	157.8	441.6	314.8	252.7	246.7
82.5°	106.1	341.6	268.2	240.6	241.5
85°	64.7	252.7	238.1	232.9	235.5
87.5°	31.1	179.4	204.4	212.2	214.8
90°	4.9	116.4	191.0	224.4	233.7
92.5°	13.0	102.9	193.0	236.4	248.7
95°	39.7	135.5	254.1	313.6	341.9
97.5°	196.7	257.0	350.1	416.6	435.1
100°	404.6	460.0	454.1	492.6	501.2
102.5°	631.6	661.6	543.7	518.7	514.4
105°	744.5	764.2	707.1	538.5	506.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	607.2	626.7	650.9	647.0	623.7
115°	518.2	536.3	568.0	573.2	574.0
117.5°	443.0	455.5	486.0	494.3	496.2
120°	371.0	384.9	414.0	421.3	420.2
122.5°	311.0	324.4	352.6	359.1	358.0
125°	256.0	270.6	298.3	306.0	304.8
127.5°	217.2	227.0	255.0	262.6	261.5
130°	189.2	196.2	217.7	227.3	230.1
132.5°	170.2	173.2	191.3	200.9	204.6
135°	153.2	156.2	169.8	181.3	183.2
137.5°	140.2	143.2	153.2	163.8	166.6
140°	129.2	132.2	138.6	149.3	151.1
142.5°	121.0	123.2	128.8	136.7	138.5
145°	114.9	115.2	119.0	125.2	126.9
147.5°	107.9	109.0	111.0	116.5	117.4
150°	101.9	103.9	104.2	106.9	109.6
152.5°	97.9	98.9	99.2	100.2	101.9
155°	92.9	94.9	94.2	95.2	95.2
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	752.3	774.7	762.5	623.1	537.8
110°	689.3	716.3	726.8	680.6	613.4



(END OF REPORT)