

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: P828336

Luminaire Tested: **OHBL-24HE-N-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828336
REPORT IS A COMBINATION OF REPORTS P826074 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-N-UNV-L940-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

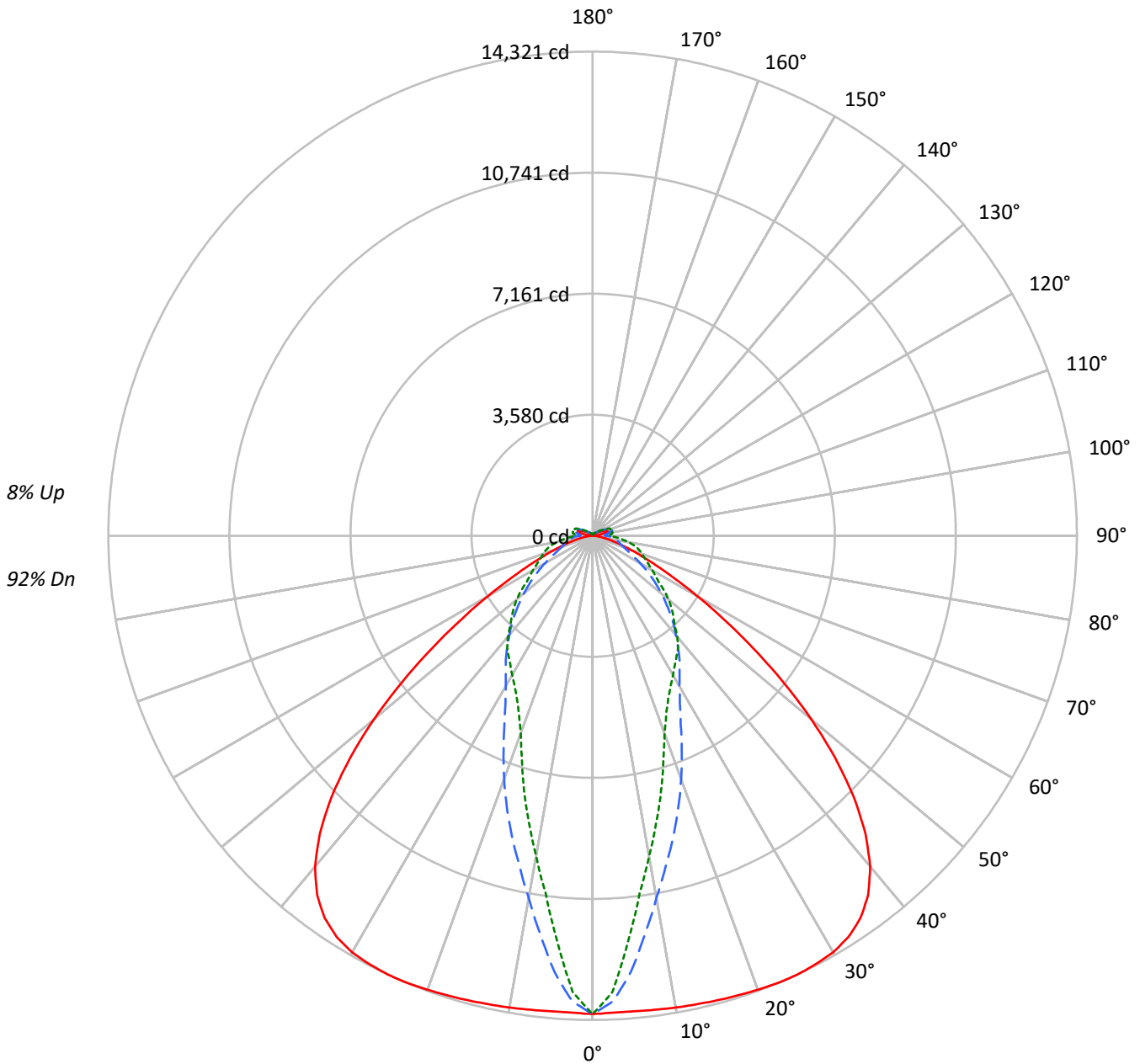
Lumens per Lamp: N/A
Luminaire Lumens: 21962.4 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 141.4
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

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Luminous Intensity Polar Plot





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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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	108	103	99	96	104	100	97	93	94	92	89	89	87	85	84	83	81	78																			
2	99	92	85	80	96	89	83	79	84	80	76	80	76	73	76	73	70	67																			
3	91	82	74	68	88	80	73	67	76	70	65	72	67	63	68	64	61	59																			
4	84	74	66	59	82	72	64	59	68	62	57	65	60	55	62	58	54	52																			
5	78	67	58	52	76	65	57	52	62	55	50	59	54	49	57	52	48	46																			
6	73	61	52	47	70	59	52	46	57	50	45	54	49	44	52	47	43	41																			
7	68	56	48	42	66	54	47	41	52	46	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	39	36	34																			
9	60	47	40	35	58	46	39	34	45	38	34	43	37	33	42	36	33	31																			
10	56	44	37	32	55	43	36	32	42	35	31	40	35	31	39	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22373	22373	22373
5°	22234	20384	19036
10°	22390	17178	15338
15°	22729	14698	12652
20°	23263	12434	10286
25°	23955	10297	9061
30°	24659	8875	8466
35°	25034	8093	8117
40°	24457	7315	7755
45°	22344	6615	7236
50°	18700	5849	6855
55°	14072	5128	6168
60°	9744	4403	5986
65°	6453	3798	5966
70°	4313	3571	6414
75°	2898	3694	7107
80°	1889	4111	7780
85°	985	5188	9276



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1190.9	5.4
10°-20°	2801.5	12.8
20°-30°	3511.6	16.0
30°-40°	3726.3	17.0
40°-50°	3369.1	15.3
50°-60°	2442.8	11.1
60°-70°	1533.0	7.0
70°-80°	1014.5	4.6
80°-90°	587.2	2.7
90°-100°	386.6	1.8
100°-110°	555.3	2.5
110°-120°	429.7	2.0
120°-130°	206.6	0.9
130°-140°	101.0	0.5
140°-150°	57.8	0.3
150°-160°	31.5	0.1
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	7504.0	34.2
0°-40°	11230.3	51.1
0°-60°	17042.2	77.6
0°-90°	20176.9	91.9
90°-120°	1371.6	6.2
90°-150°	1737.0	7.9
90°-180°	1786.0	8.1
0°-180°	21962.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14147	14147	14147	14147	14147	
5°	14119	13757	12949	12348	12037	###
15°	14226	11596	9210	8190	7819	4035
25°	14321	8966	6167	5473	5300	6616
35°	13808	5961	4476	4336	4334	8584
45°	10916	3776	3244	3322	3378	8315
55°	5779	2340	2117	2296	2378	5221
65°	2067	1357	1225	1570	1745	2151
75°	638	731	823	1278	1354	711
85°	112	303	602	837	769	134
90°	3	142	370	518	526	9
95°	27	139	382	518	553	76
105°	460	504	603	565	551	436
115°	328	355	465	500	499	327
125°	169	181	239	258	257	157
135°	102	108	128	148	148	81
145°	81	84	88	100	99	51
155°	68	73	76	78	75	29
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14147.1	14147.1	14147.1	14147.1	14147.1
2.5°	14117.5	14036.7	13785.0	13631.4	13502.2
5°	14118.8	13756.6	12948.8	12348.3	12037.2
7.5°	14139.1	13333.9	11878.4	11001.8	10659.8
10°	14170.0	12810.1	10879.3	9944.9	9625.7
12.5°	14192.9	12220.4	10000.1	9040.0	8690.0
15°	14226.5	11595.6	9209.7	8190.4	7818.8
17.5°	14257.5	11007.2	8428.7	7363.8	6950.3
20°	14288.4	10373.0	7647.8	6550.5	6209.8
22.5°	14318.1	9703.9	6885.7	5919.0	5686.1
25°	14320.8	8966.0	6166.7	5473.3	5299.6
27.5°	14285.8	8201.2	5583.7	5100.3	4992.6
30°	14225.2	7459.3	5131.3	4831.1	4754.3
32.5°	14074.4	6702.6	4781.2	4571.2	4526.8
35°	13807.8	5960.7	4475.6	4335.6	4334.2
37.5°	13387.7	5302.3	4144.4	4120.1	4149.8
40°	12767.0	4726.0	3830.6	3895.3	3895.3
42.5°	11939.0	4225.2	3546.6	3612.5	3595.0
45°	10915.6	3775.5	3243.5	3321.7	3378.2
47.5°	9729.4	3379.6	2933.9	3084.7	3162.8
50°	8439.5	3002.5	2651.2	2843.7	2932.5
52.5°	7087.7	2653.8	2375.1	2596.0	2667.3
55°	5778.9	2340.1	2116.6	2295.7	2377.8
57.5°	4594.1	2041.2	1863.5	2033.1	2202.8
60°	3574.8	1784.0	1625.2	1867.5	2037.2
62.5°	2730.6	1555.2	1401.6	1712.7	1882.3
65°	2066.8	1357.2	1225.3	1570.0	1745.0
67.5°	1557.9	1186.2	1087.9	1466.3	1637.3
70°	1170.1	1020.6	977.5	1401.6	1555.2
72.5°	864.4	868.5	890.0	1345.1	1462.2
75°	638.3	731.1	822.7	1277.7	1354.5
77.5°	456.5	605.9	762.1	1197.0	1223.9
80°	316.4	494.1	698.8	1090.6	1067.8
82.5°	197.9	395.9	642.3	973.5	910.2
85°	111.7	302.9	601.8	837.4	768.8
87.5°	49.8	226.2	526.4	653.0	609.9
90°	2.6	142.2	369.6	518.4	525.9
92.5°	10.5	125.0	354.8	496.6	514.5
95°	27.1	139.3	381.8	518.3	552.8
97.5°	124.1	205.9	432.5	558.2	583.0
100°	248.1	328.2	480.0	581.1	599.0
102.5°	391.1	441.1	518.4	573.1	579.6
105°	460.3	503.5	602.6	564.9	551.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.9	411.9	531.8	562.3	554.2
115°	327.8	354.7	464.6	499.8	498.6
117.5°	278.7	302.4	400.6	431.7	431.2
120°	236.1	257.5	340.0	364.8	364.8
122.5°	201.4	216.5	286.4	306.7	306.2
125°	169.2	180.7	239.4	257.8	257.4
127.5°	142.6	150.5	201.0	219.0	217.7
130°	126.1	132.2	168.9	188.7	188.7
132.5°	112.6	117.9	145.6	165.3	166.2
135°	102.2	107.5	128.4	148.2	148.2
137.5°	95.2	100.9	114.3	132.8	133.6
140°	88.2	93.6	103.4	120.4	120.4
142.5°	84.3	87.5	94.6	108.9	109.8
145°	81.4	84.4	88.0	99.6	99.2
147.5°	77.0	81.5	84.5	91.3	90.8
150°	74.4	79.3	80.2	85.1	83.7
152.5°	70.9	75.8	76.7	80.2	78.9
155°	68.3	73.2	75.5	77.6	74.9
157.5°	49.6	51.3	51.3	52.2	52.2
160°	47.8	48.7	49.6	49.6	49.6
162.5°	46.1	47.0	47.0	47.8	47.8
165°	45.2	45.2	46.1	46.1	46.1
167.5°	43.5	43.5	44.3	44.3	44.3
170°	42.6	42.6	42.6	43.5	43.5
172.5°	41.7	41.7	41.7	41.7	41.7
175°	40.9	40.9	40.9	40.9	40.9
177.5°	40.0	40.9	40.9	40.9	40.9
180°	40.0	40.0	40.0	40.0	40.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	462.9	509.1	622.9	589.6	543.3
110°	425.9	469.8	588.0	602.2	567.2



(END OF REPORT)