

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: P828192

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828192
REPORT IS A COMBINATION OF REPORTS P826038 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: OHB-24HE-N-UNV-L940-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

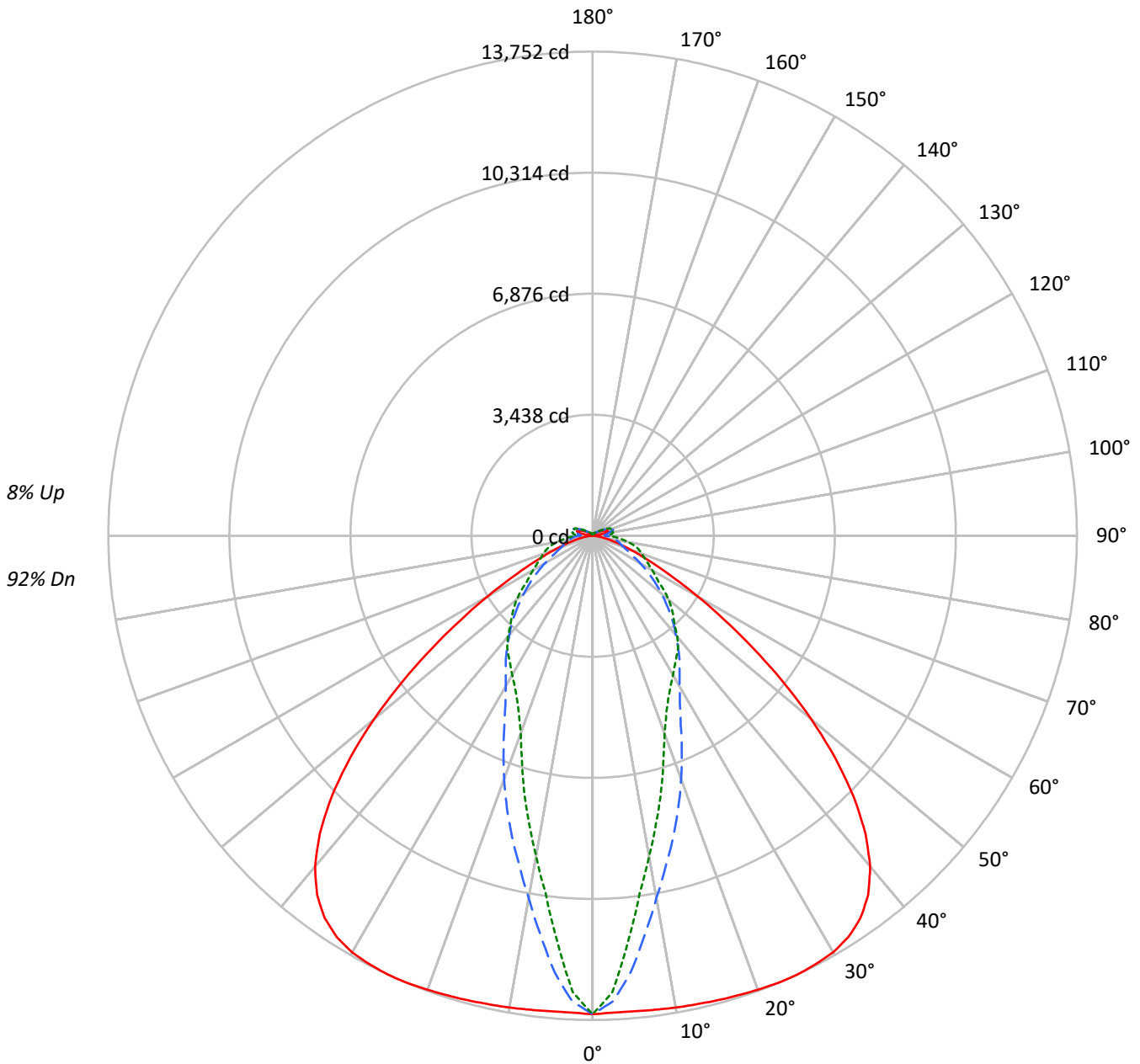
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21133.0 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 138.4
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	106	106	106	100	100	100	94	94	94	92																			
1	108	103	99	96	104	100	97	93	94	92	89	89	87	85	84	82	81	78																			
2	99	91	85	80	96	89	83	79	84	79	75	80	76	73	76	73	70	67																			
3	91	82	74	68	88	80	73	67	75	70	65	72	67	63	68	64	61	59																			
4	84	73	66	59	82	72	64	59	68	62	57	65	60	55	62	57	54	51																			
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	48	44	52	47	43	41																			
7	68	56	47	42	66	54	47	41	52	45	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	40	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°	42020	42020	42020
5°	41758	38185	35621
10°	42050	32097	28597
15°	42687	27391	23500
20°	43691	23110	19031
25°	44990	19085	16697
30°	46312	16402	15533
35°	47018	14908	14821
40°	45933	13428	14084
45°	41965	12095	13064
50°	35121	10646	12288
55°	26430	9284	10963
60°	18300	7920	10529
65°	12119	6774	10350
70°	8100	6300	10919
75°	5443	6414	11760
80°	3549	6960	12265
85°	1850	8387	13194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1143.6	5.4
10°-20°	2690.2	12.7
20°-30°	3372.2	16.0
30°-40°	3578.2	16.9
40°-50°	3235.3	15.3
50°-60°	2345.8	11.1
60°-70°	1472.1	7.0
70°-80°	974.2	4.6
80°-90°	564.0	2.7
90°-100°	375.3	1.8
100°-110°	547.6	2.6
110°-120°	424.9	2.0
120°-130°	204.2	1.0
130°-140°	99.9	0.5
140°-150°	57.2	0.3
150°-160°	31.3	0.1
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	7205.9	34.1
0°-40°	10784.2	51.0
0°-60°	16365.3	77.4
0°-90°	19375.5	91.7
90°-120°	1347.8	6.4
90°-150°	1709.2	8.1
90°-180°	1757.0	8.3
0°-180°	21133.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13585	13585	13585	13585	13585	
5°	13558	13210	12434	11858	11559	###
15°	13661	11135	8844	7865	7508	3874
25°	13752	8610	5922	5256	5089	6353
35°	13259	5724	4298	4163	4162	8243
45°	10482	3626	3115	3190	3244	7985
55°	5549	2247	2032	2204	2283	5014
65°	1985	1303	1177	1508	1676	2065
75°	613	702	790	1227	1301	683
85°	107	291	578	804	738	129
90°	3	137	356	499	506	9
95°	27	136	370	502	535	76
105°	460	501	594	553	539	436
115°	327	353	459	492	491	327
125°	168	180	236	254	254	156
135°	102	107	127	146	146	81
145°	81	84	87	98	98	51
155°	68	72	75	77	74	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°	13585.2	13585.2	13585.2	13585.2	13585.2
2.5°	13556.6	13479.1	13237.3	13089.9	12965.8
5°	13557.9	13210.2	12434.4	11857.7	11559.1
7.5°	13577.3	12804.1	11406.5	10564.8	10236.3
10°	13607.1	12301.2	10447.1	9549.8	9243.3
12.5°	13629.1	11734.9	9602.8	8681.0	8344.8
15°	13661.4	11135.0	8843.8	7865.1	7508.2
17.5°	13691.1	10569.9	8093.9	7071.2	6674.3
20°	13720.9	9961.0	7344.0	6290.3	5963.1
22.5°	13749.3	9318.4	6612.2	5683.8	5460.2
25°	13751.9	8609.8	5921.8	5255.9	5089.1
27.5°	13718.3	7875.4	5361.9	4897.8	4794.3
30°	13660.1	7163.0	4927.5	4639.1	4565.5
32.5°	13515.3	6436.3	4591.3	4389.6	4347.0
35°	13259.3	5723.9	4297.8	4163.3	4162.0
37.5°	12855.9	5091.6	3979.7	3956.5	3984.9
40°	12259.9	4538.3	3678.4	3740.5	3740.5
42.5°	11464.7	4057.3	3405.6	3469.0	3452.2
45°	10482.0	3625.5	3114.7	3189.7	3244.1
47.5°	9343.0	3245.3	2817.3	2962.2	3037.1
50°	8104.3	2883.3	2545.8	2730.8	2816.0
52.5°	6806.1	2548.4	2280.8	2492.8	2561.4
55°	5549.4	2247.2	2032.5	2204.5	2283.3
57.5°	4411.6	1960.2	1789.5	1952.3	2115.3
60°	3432.8	1713.2	1560.6	1793.3	1956.2
62.5°	2622.2	1493.4	1346.0	1644.6	1807.6
65°	1984.7	1303.3	1176.6	1507.6	1675.7
67.5°	1496.0	1139.1	1044.7	1408.1	1572.2
70°	1123.6	980.0	938.7	1346.0	1493.4
72.5°	830.1	834.0	854.7	1291.6	1404.2
75°	612.9	702.1	790.0	1227.0	1300.7
77.5°	438.3	581.8	731.8	1149.4	1175.3
80°	303.9	474.5	671.0	1047.3	1025.3
82.5°	190.1	380.1	616.8	934.8	874.1
85°	107.3	290.9	577.9	804.2	738.2
87.5°	47.8	217.2	505.6	627.0	585.7
90°	2.6	137.2	355.8	498.9	506.3
92.5°	10.4	120.9	342.0	478.8	496.1
95°	26.9	135.7	369.6	501.7	535.4
97.5°	123.8	202.8	421.0	542.8	567.0
100°	247.7	325.4	469.5	567.0	584.3
102.5°	390.7	438.5	508.8	560.3	566.3
105°	459.8	501.1	593.7	553.1	539.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.4	410.0	525.1	553.8	545.5
115°	327.3	353.1	458.7	492.3	491.0
117.5°	278.0	301.0	395.3	425.1	424.6
120°	235.4	256.2	335.5	359.2	359.2
122.5°	200.7	215.4	282.7	302.0	301.6
125°	168.5	179.8	236.3	254.0	253.5
127.5°	142.1	149.8	198.6	215.8	214.5
130°	125.5	131.5	166.9	185.9	185.9
132.5°	112.1	117.2	144.0	162.9	163.8
135°	101.6	106.8	127.1	146.1	146.1
137.5°	94.7	100.2	113.2	130.9	131.8
140°	87.7	92.9	102.4	118.8	118.8
142.5°	83.8	86.8	93.7	107.6	108.4
145°	80.7	83.7	87.2	98.4	98.0
147.5°	76.3	80.7	83.7	90.2	89.8
150°	73.7	78.5	79.4	84.2	82.9
152.5°	70.3	75.0	75.9	79.4	78.1
155°	67.6	72.4	74.6	76.8	74.2
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°	462.5	506.9	614.7	579.1	532.4
110°	425.5	467.8	580.5	592.7	557.4



(END OF REPORT)