

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: P827738

Luminaire Tested: **OHBL-24HE-N-UNV-L930-CD-UPL36**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827738
REPORT IS A COMBINATION OF REPORTS P826302 AND G3-2310-221-2
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-N-UNV-L930-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

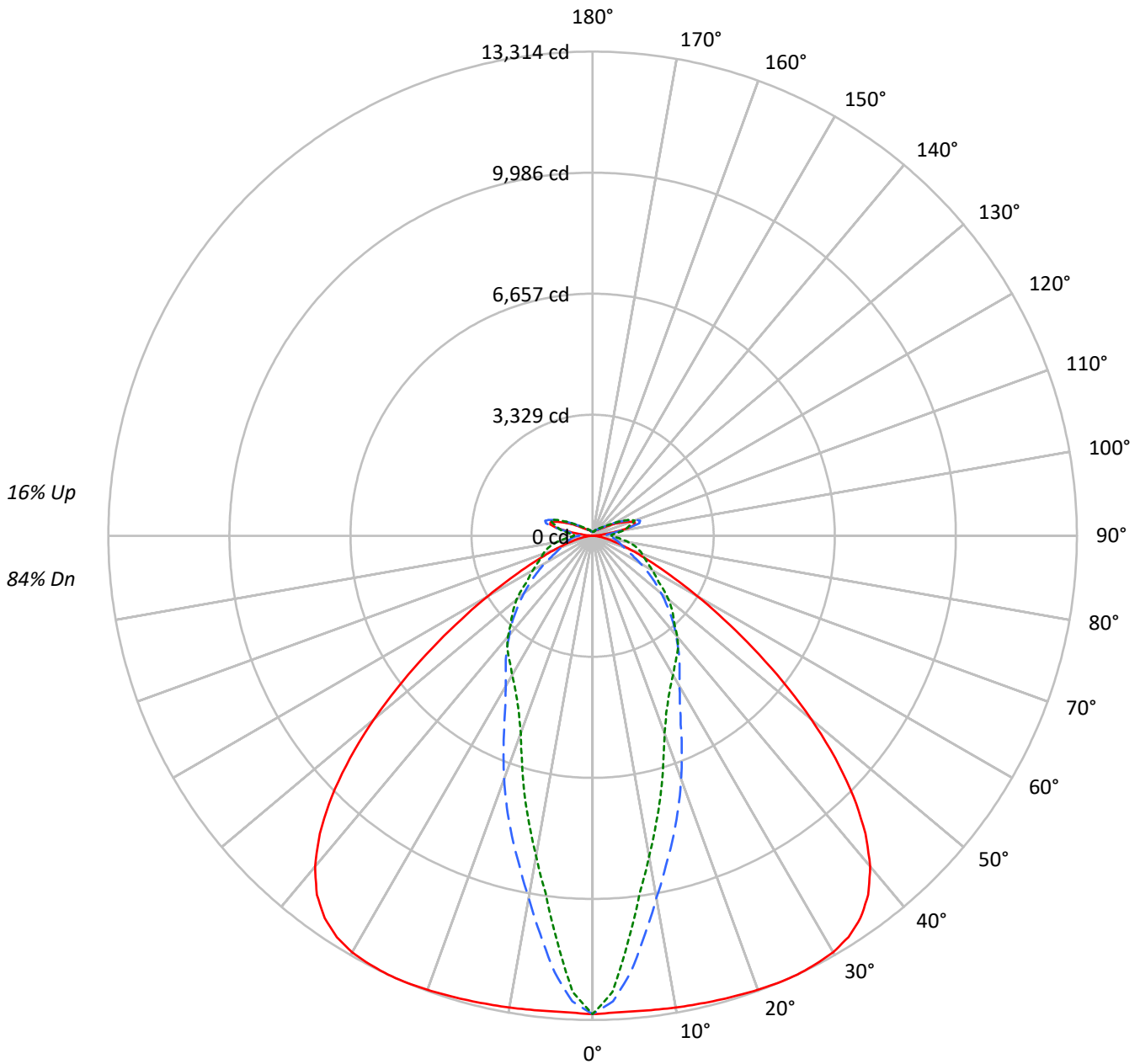
Lumens per Lamp: N/A
Luminaire Lumens: 22307.6 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 161.8
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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	87	87	87	84																			
1	106	101	98	94	102	98	94	91	91	88	85	84	82	80	78	76	75	72																			
2	97	90	84	79	93	87	81	76	81	76	72	75	72	68	70	67	65	62																			
3	90	80	73	67	86	77	71	65	72	67	62	68	63	59	63	59	56	54																			
4	83	72	64	58	79	70	62	57	65	59	54	61	56	52	57	53	50	47																			
5	77	65	57	51	74	63	56	50	59	53	48	56	50	46	52	48	44	42																			
6	71	59	51	45	68	57	50	44	54	48	43	51	46	41	48	43	40	38																			
7	66	54	46	41	64	53	45	40	50	43	39	47	41	37	44	40	36	34																			
8	62	50	42	37	60	48	41	36	46	40	35	44	38	34	41	36	33	31																			
9	58	46	39	33	56	45	38	33	43	36	32	40	35	31	38	34	30	28																			
10	55	43	35	31	53	42	35	30	40	34	29	38	32	29	36	31	28	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20801	20801	20801
5°	20671	18951	17698
10°	20816	15971	14260
15°	21131	13665	11763
20°	21628	11560	9563
25°	22271	9573	8424
30°	22925	8251	7871
35°	23275	7524	7546
40°	22737	6801	7210
45°	20773	6150	6728
50°	17386	5438	6373
55°	13083	4768	5734
60°	9059	4094	5566
65°	5999	3531	5546
70°	4010	3320	5963
75°	2695	3434	6608
80°	1757	3822	7233
85°	916	4823	8624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1107.2	5.0
10°-20°	2604.6	11.7
20°-30°	3264.8	14.6
30°-40°	3464.3	15.5
40°-50°	3132.3	14.0
50°-60°	2271.1	10.2
60°-70°	1425.3	6.4
70°-80°	943.2	4.2
80°-90°	549.6	2.5
90°-100°	485.6	2.2
100°-110°	1188.9	5.3
110°-120°	945.8	4.2
120°-130°	448.8	2.0
130°-140°	224.7	1.0
140°-150°	130.4	0.6
150°-160°	74.4	0.3
160°-170°	35.6	0.2
170°-180°	10.9	0.0
0°-30°	6976.6	31.3
0°-40°	10441.0	46.8
0°-60°	15844.4	71.0
0°-90°	18762.4	84.1
90°-120°	2620.3	11.7
90°-150°	3424.3	15.4
90°-180°	3545.0	15.9
0°-180°	22307.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13153	13153	13153	13153	13153	
5°	13126	12790	12039	11480	11191	###
15°	13227	10781	8562	7615	7269	3751
25°	13314	8336	5733	5089	4927	6151
35°	12837	5542	4161	4031	4030	7980
45°	10148	3510	3016	3088	3141	7731
55°	5373	2176	1968	2134	2211	4854
65°	1922	1262	1139	1460	1622	2000
75°	593	680	765	1188	1259	661
85°	104	282	560	779	715	125
90°	6	157	375	515	520	11
95°	55	183	419	558	588	191
105°	1204	1246	1328	1109	1036	1145
115°	846	860	968	1009	1004	855
125°	425	444	506	517	508	399
135°	255	263	286	306	307	202
145°	191	196	203	216	215	121
155°	157	163	167	170	168	71
165°	122	124	124	125	126	35
175°	112	112	112	112	113	11
180°	110	110	110	110	110	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13152.7	13152.7	13152.7	13152.7	13152.7
2.5°	13125.2	13050.1	12816.0	12673.3	12553.2
5°	13126.4	12789.7	12038.7	11480.4	11191.1
7.5°	13145.3	12396.7	11043.4	10228.5	9910.6
10°	13174.1	11909.7	10114.6	9245.9	8949.1
12.5°	13195.3	11361.4	9297.2	8404.6	8079.2
15°	13226.6	10780.6	8562.4	7614.7	7269.3
17.5°	13255.4	10233.5	7836.3	6846.2	6461.8
20°	13284.2	9643.9	7110.3	6090.1	5773.4
22.5°	13311.7	9021.8	6401.8	5503.0	5286.4
25°	13314.2	8335.8	5733.3	5088.6	4927.1
27.5°	13281.7	7624.8	5191.3	4741.8	4641.7
30°	13225.4	6935.0	4770.6	4491.5	4420.1
32.5°	13085.1	6231.5	4445.2	4249.9	4208.6
35°	12837.3	5541.8	4161.0	4030.8	4029.5
37.5°	12446.7	4929.6	3853.1	3830.5	3858.1
40°	11869.6	4393.9	3561.4	3621.5	3621.5
42.5°	11099.8	3928.2	3297.3	3358.6	3342.3
45°	10148.4	3510.1	3015.6	3088.2	3140.8
47.5°	9045.6	3142.1	2727.7	2867.9	2940.5
50°	7846.3	2791.5	2464.9	2643.8	2726.4
52.5°	6589.5	2467.3	2208.2	2413.5	2479.8
55°	5372.7	2175.6	1967.8	2134.3	2210.7
57.5°	4271.2	1897.7	1732.5	1890.2	2048.0
60°	3323.5	1658.6	1510.9	1736.2	1894.0
62.5°	2538.7	1445.9	1303.1	1592.3	1750.0
65°	1921.5	1261.8	1139.2	1459.6	1622.3
67.5°	1448.4	1102.8	1011.5	1363.3	1522.2
70°	1087.9	948.9	908.8	1303.1	1445.9
72.5°	803.6	807.4	827.4	1250.6	1359.5
75°	593.4	679.7	764.8	1187.9	1259.3
77.5°	424.4	563.3	708.5	1112.8	1137.9
80°	294.2	459.4	649.7	1014.0	992.7
82.5°	184.0	368.0	597.1	905.1	846.2
85°	103.9	281.6	559.5	778.6	714.8
87.5°	46.3	210.3	489.4	607.1	567.0
90°	6.5	157.3	375.1	515.1	519.7
92.5°	22.7	146.1	361.4	495.7	513.0
95°	55.1	182.8	418.8	557.8	588.3
97.5°	308.5	397.5	550.0	697.6	732.0
100°	656.6	731.1	763.1	852.3	881.0
102.5°	1025.6	1090.7	1041.4	975.8	961.6
105°	1203.9	1246.5	1328.2	1108.8	1035.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	990.6	1023.1	1128.1	1166.2	1146.5
115°	846.3	860.1	967.9	1008.6	1004.4
117.5°	727.2	737.8	833.2	861.3	853.6
120°	614.0	629.0	712.2	727.2	720.7
122.5°	511.4	532.7	600.9	614.1	602.4
125°	424.9	444.4	505.5	516.9	507.6
127.5°	365.4	372.7	425.3	438.8	437.6
130°	316.1	325.0	364.0	383.2	381.5
132.5°	280.9	289.9	320.5	340.4	342.8
135°	255.0	263.2	285.9	305.9	306.7
137.5°	234.0	242.6	257.5	277.8	278.6
140°	216.2	223.6	236.0	254.2	254.2
142.5°	202.9	209.0	218.1	233.0	233.0
145°	191.3	196.5	203.1	215.5	215.1
147.5°	181.6	187.3	192.5	199.7	199.2
150°	172.7	178.8	182.0	187.5	187.0
152.5°	164.6	170.7	174.0	177.3	176.9
155°	157.3	163.4	167.2	170.0	167.5
157.5°	135.8	138.2	140.6	141.5	141.5
160°	131.0	132.6	135.0	135.0	135.8
162.5°	126.1	127.7	129.3	130.1	131.0
165°	122.1	123.7	124.5	125.3	126.1
167.5°	118.8	119.6	120.4	121.2	121.2
170°	115.6	116.4	117.2	117.2	118.0
172.5°	113.2	114.0	114.8	114.8	114.8
175°	111.6	111.6	112.4	112.4	113.2
177.5°	109.9	110.7	110.7	110.7	111.6
180°	109.9	109.9	109.9	109.9	109.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1215.2	1259.0	1368.8	1284.5	1152.6
110°	1123.5	1169.1	1278.2	1278.5	1223.3



(END OF REPORT)