

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: P826614

Luminaire Tested: **OHBL-48HE-N-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826614
REPORT IS A COMBINATION OF REPORTS P826254 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: OHBL-48HE-N-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

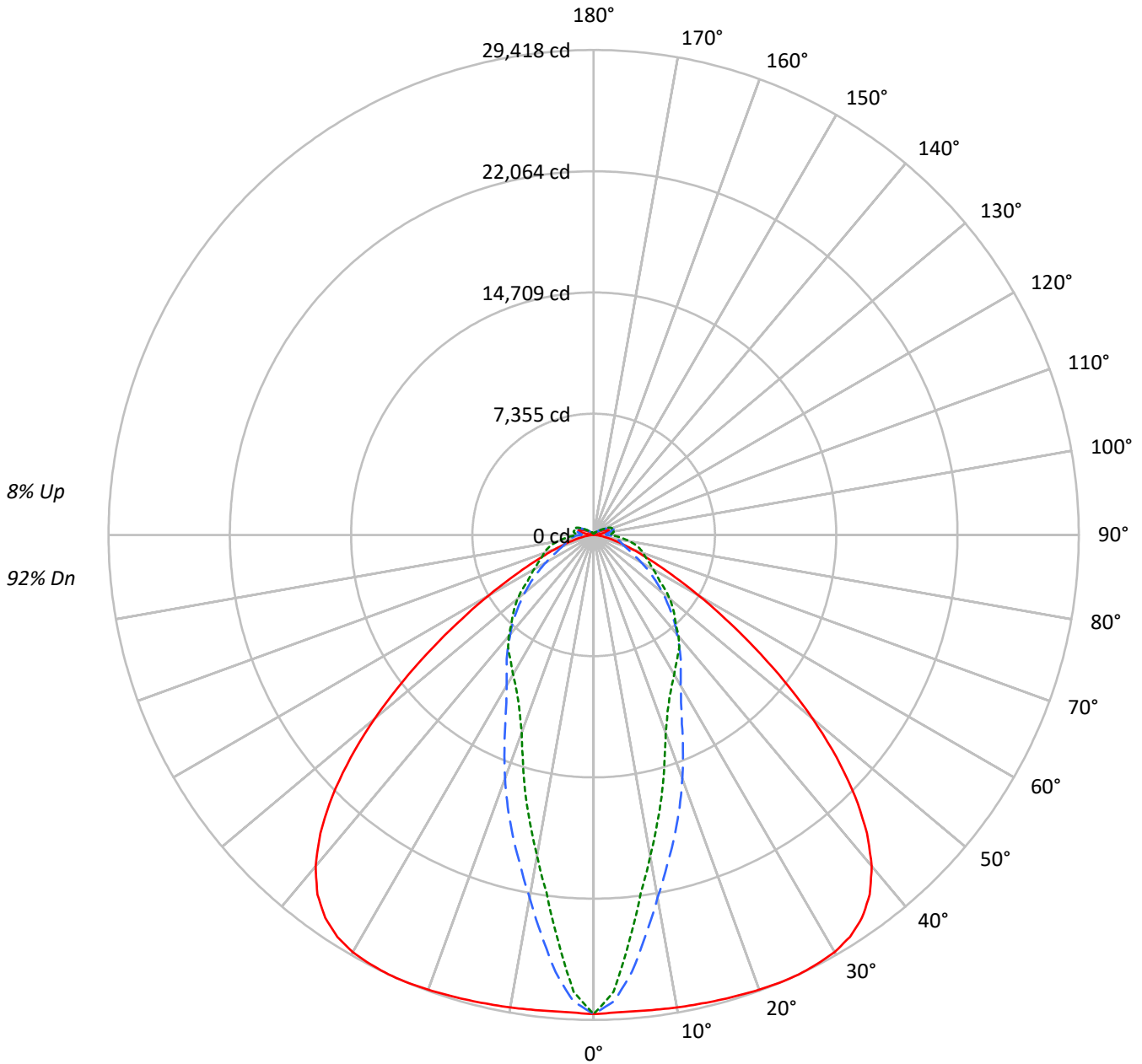
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45144.3 lumens
Efficiency: N/A
Efficacy: 159.3 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): 283.4
Input Voltage (V): NR
Input Current (Ain): 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	45	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°	45960	45960	45960
5°	45674	41874	39104
10°	45994	35288	31509
15°	46690	30193	25990
20°	47788	25542	21130
25°	49209	21152	18614
30°	50655	18232	17392
35°	51427	16625	16675
40°	50240	15027	15930
45°	45900	13589	14866
50°	38415	12015	14082
55°	28909	10534	12670
60°	20017	9045	12298
65°	13256	7802	12256
70°	8860	7336	13176
75°	5954	7589	14600
80°	3881	8444	15981
85°	2024	10658	19055



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2446.4	5.4
10°-20°	5755.0	12.7
20°-30°	7213.8	16.0
30°-40°	7654.7	17.0
40°-50°	6921.0	15.3
50°-60°	5018.2	11.1
60°-70°	3149.2	7.0
70°-80°	2084.0	4.6
80°-90°	1206.4	2.7
90°-100°	797.4	1.8
100°-110°	1150.5	2.5
110°-120°	890.3	2.0
120°-130°	428.2	0.9
130°-140°	209.4	0.5
140°-150°	119.5	0.3
150°-160°	65.2	0.1
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	15415.2	34.1
0°-40°	23069.8	51.1
0°-60°	35009.0	77.5
0°-90°	41448.6	91.8
90°-120°	2838.1	6.3
90°-150°	3595.3	8.0
90°-180°	3696.0	8.2
0°-180°	45144.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29062	29062	29062	29062	29062	
5°	29004	28260	26600	25366	24728	###
15°	29225	23820	18919	16825	16062	8288
25°	29418	18418	12668	11244	10887	13591
35°	28365	12245	9194	8906	8904	17633
45°	22423	7756	6663	6824	6940	17082
55°	11871	4807	4348	4716	4885	10726
65°	4246	2788	2517	3225	3585	4418
75°	1311	1502	1690	2625	2782	1461
85°	230	622	1236	1720	1579	275
90°	5	292	760	1067	1082	18
95°	60	286	791	1070	1136	163
105°	956	1045	1244	1168	1139	908
115°	674	736	960	1036	1038	679
125°	348	376	495	536	530	324
135°	214	223	266	306	308	169
145°	168	175	183	206	204	106
155°	141	151	156	160	154	61
165°	93	94	95	95	95	27
175°	84	85	85	86	86	8
180°	84	84	84	84	84	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29061.7	29061.7	29061.7	29061.7	29061.7
2.5°	29000.9	28834.8	28317.6	28002.4	27736.8
5°	29003.6	28259.6	26600.0	25366.4	24727.5
7.5°	29045.1	27391.1	24401.1	22600.5	21897.9
10°	29108.7	26315.1	22348.8	20429.2	19773.7
12.5°	29155.7	25103.6	20542.6	18570.4	17851.3
15°	29224.8	23820.3	18919.0	16825.2	16061.8
17.5°	29288.5	22611.5	17314.8	15126.9	14277.8
20°	29352.1	21308.8	15710.5	13456.3	12756.5
22.5°	29413.0	19934.1	14145.0	12159.0	11680.5
25°	29418.5	18418.4	12668.0	11243.5	10886.8
27.5°	29346.6	16847.3	11470.3	10477.4	10256.1
30°	29222.1	15323.3	10541.0	9924.2	9766.6
32.5°	28912.4	13768.9	9821.8	9390.3	9299.0
35°	28364.6	12244.8	9194.0	8906.3	8903.6
37.5°	27501.7	10892.2	8513.6	8463.8	8524.6
40°	26226.6	9708.4	7869.1	8001.8	8001.8
42.5°	24525.5	8679.5	7285.5	7421.0	7385.1
45°	22423.4	7755.7	6663.2	6823.6	6939.7
47.5°	19986.7	6942.5	6026.9	6336.8	6497.1
50°	17336.9	6168.0	5446.2	5841.7	6024.2
52.5°	14559.8	5451.7	4879.1	5332.7	5479.3
55°	11871.4	4807.2	4348.0	4716.0	4884.7
57.5°	9437.4	4193.2	3828.0	4176.5	4525.1
60°	7343.6	3664.9	3338.5	3836.3	4184.9
62.5°	5609.3	3194.7	2879.3	3518.2	3866.7
65°	4245.8	2788.0	2517.0	3225.1	3584.7
67.5°	3200.2	2436.8	2234.9	3012.1	3363.4
70°	2403.6	2096.5	2008.0	2879.3	3194.7
72.5°	1775.7	1784.1	1828.3	2763.2	3003.8
75°	1311.1	1501.9	1690.0	2624.9	2782.5
77.5°	937.6	1244.7	1565.5	2458.9	2514.3
80°	650.0	1015.1	1435.5	2240.4	2193.4
82.5°	406.6	813.2	1319.3	1999.8	1869.8
85°	229.6	622.4	1236.3	1720.4	1579.3
87.5°	102.4	464.7	1081.5	1341.5	1253.0
90°	4.7	291.6	760.1	1067.3	1082.0
92.5°	21.3	257.6	728.1	1018.8	1058.5
95°	60.4	285.9	790.7	1069.6	1136.2
97.5°	264.2	431.2	883.2	1149.2	1213.2
100°	530.2	689.2	985.1	1198.3	1234.3
102.5°	813.1	921.9	1075.7	1182.1	1196.8
105°	955.5	1044.8	1244.5	1167.8	1138.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	779.5	857.1	1093.9	1163.8	1147.8
115°	674.4	736.2	960.2	1035.8	1038.5
117.5°	584.1	626.5	826.6	894.8	898.5
120°	489.2	532.6	706.9	760.4	754.8
122.5°	415.7	448.9	592.9	638.0	629.6
125°	347.7	375.6	495.4	536.0	530.4
127.5°	296.6	314.2	414.7	454.4	450.8
130°	262.1	275.1	350.8	390.5	391.4
132.5°	233.3	245.4	301.7	344.1	343.2
135°	213.7	223.1	265.5	306.1	307.9
137.5°	197.9	209.0	236.7	275.5	275.5
140°	184.0	193.3	214.5	249.6	250.5
142.5°	174.7	181.2	196.0	225.5	225.5
145°	168.2	174.6	182.9	206.0	204.2
147.5°	159.8	169.0	173.6	189.3	186.6
150°	153.3	163.4	166.2	175.4	173.5
152.5°	146.7	156.9	159.7	166.1	163.4
155°	141.2	151.3	156.0	159.6	154.1
157.5°	103.3	105.2	107.0	107.9	107.9
160°	99.6	100.5	102.4	103.3	103.3
162.5°	95.8	96.8	97.7	98.6	98.6
165°	93.1	94.0	94.9	94.9	94.9
167.5°	90.3	90.3	91.2	92.1	92.1
170°	87.5	88.4	88.4	89.3	89.3
172.5°	85.6	86.5	86.5	86.5	87.5
175°	83.8	84.7	84.7	85.6	85.6
177.5°	83.8	83.8	83.8	83.8	83.8
180°	83.8	83.8	83.8	83.8	83.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	959.2	1054.2	1288.6	1223.3	1129.1
110°	889.4	975.2	1215.5	1246.1	1174.3



(END OF REPORT)