

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: P826596

Luminaire Tested: **OHBL-36HE-NL-UNV-L830-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826596
REPORT IS A COMBINATION OF REPORTS P826315 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-36HE-NL-UNV-L830-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

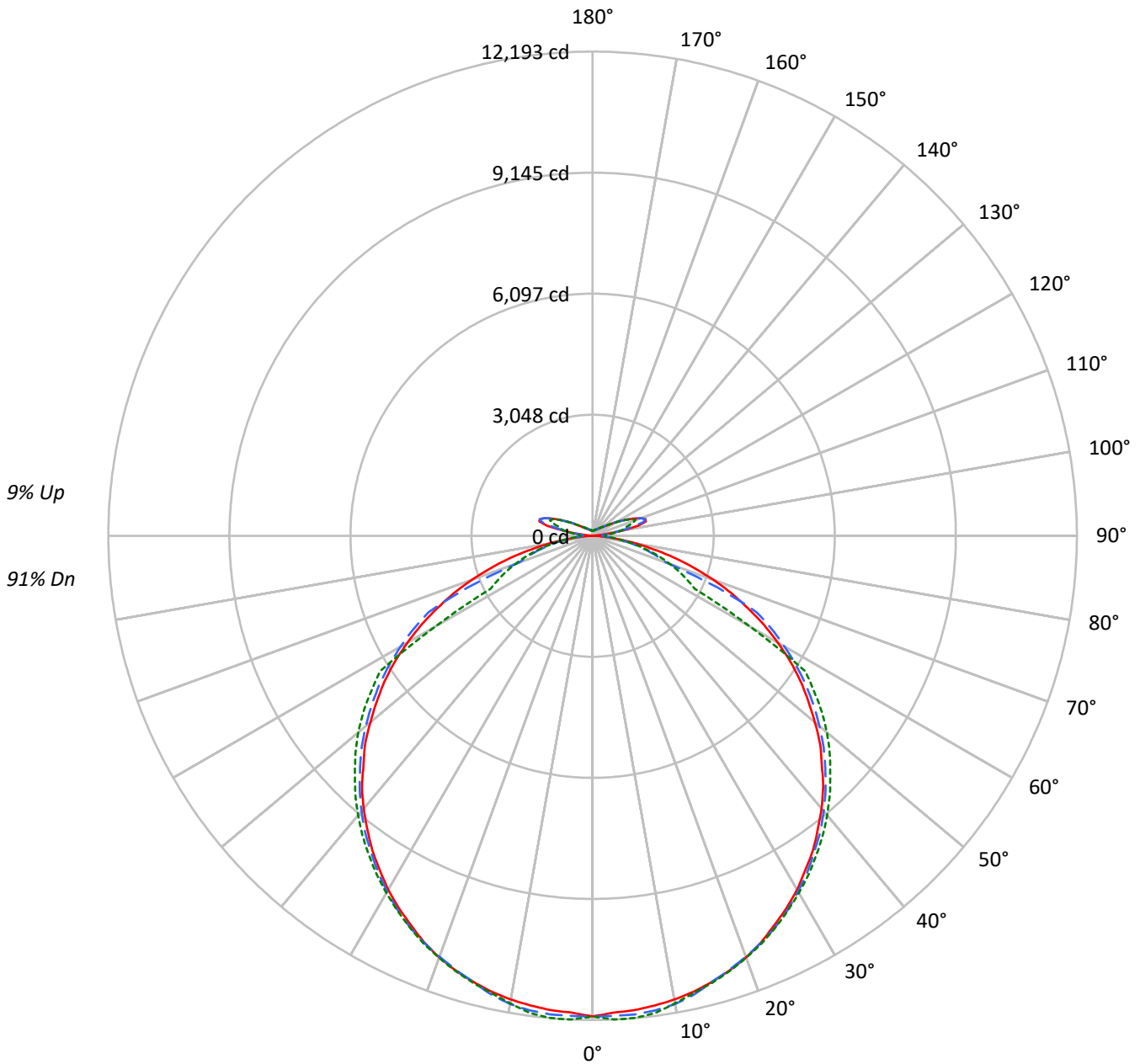
Lumens per Lamp: N/A
Luminaire Lumens: 37317.2 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 240.8
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				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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	91
1	107	103	99	95	103	99	96	92	93	91	88	88	86	84	83	81	79	79	79	79	77
2	98	90	83	78	94	87	81	76	82	77	73	77	73	70	73	70	67	67	67	67	64
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	65	61	57	57	57	57	54
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	49	49	49	47
5	75	62	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	43	43	43	40
6	69	56	47	41	67	55	47	41	52	45	40	49	43	38	47	42	37	37	37	37	35
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	33	33	33	31
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	30	30	30	28
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	36	31	27	27	27	27	25
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	24	24	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19142	19142	19142
5°	18945	19112	19309
10°	18857	19028	19110
15°	18760	18744	18943
20°	18636	18592	18849
25°	18406	18479	18763
30°	18211	18280	18681
35°	17974	18043	18608
40°	17688	17821	18552
45°	17285	17506	18437
50°	16854	17151	18364
55°	16331	16701	18052
60°	15541	16031	13946
65°	14402	15169	9289
70°	12934	7810	8881
75°	10770	7073	8280
80°	7605	5939	7250
85°	3086	4797	6273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1149.9	3.1
10°-20°	3292.6	8.8
20°-30°	5010.0	13.4
30°-40°	6091.4	16.3
40°-50°	6404.8	17.2
50°-60°	5848.4	15.7
60°-70°	3749.1	10.0
70°-80°	1771.0	4.7
80°-90°	498.2	1.3
90°-100°	386.1	1.0
100°-110°	1195.2	3.2
110°-120°	969.5	2.6
120°-130°	454.2	1.2
130°-140°	230.0	0.6
140°-150°	134.4	0.4
150°-160°	78.8	0.2
160°-170°	41.0	0.1
170°-180°	12.5	0.0
0°-30°	9452.5	25.3
0°-40°	15543.9	41.7
0°-60°	27797.1	74.5
0°-90°	33815.5	90.6
90°-120°	2550.8	6.8
90°-150°	3369.4	9.0
90°-180°	3502.0	9.4
0°-180°	37317.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12104	12104	12104	12104	12104	
5°	11992	12038	12100	12166	12191	###
15°	11628	11715	11626	11643	11652	3283
25°	10821	10838	10876	10894	10885	4993
35°	9672	9615	9725	9844	9817	6045
45°	8158	8143	8281	8476	8462	6306
55°	6393	6344	6559	6777	6794	5701
65°	4307	4307	4558	2614	2623	4270
75°	2128	2169	1408	1483	1489	2243
85°	278	353	440	476	450	411
90°	7	164	254	298	295	17
95°	64	177	294	384	399	218
105°	1385	1395	1324	993	898	1317
115°	969	960	974	974	952	976
125°	472	488	500	491	482	444
135°	279	286	293	296	297	221
145°	203	208	212	215	216	129
155°	164	167	169	171	171	77
165°	140	142	143	144	145	40
175°	128	128	129	129	130	12
180°	127	127	127	127	127	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12104.2	12104.2	12104.2	12104.2	<i>12104.2</i>
2.5°	<i>12019.1</i>	<i>12059.6</i>	<i>12104.2</i>	<i>12161.5</i>	<i>12193.3</i>
5°	11991.5	12038.3	12099.9	12165.8	<i>12191.2</i>
7.5°	11932.1	11997.8	12057.4	12104.2	<i>12119.0</i>
10°	11857.7	11936.4	11970.4	11966.1	<i>11955.6</i>
12.5°	11757.9	11840.9	11830.3	11781.3	<i>11789.9</i>
15°	11628.4	11715.4	11626.4	11643.2	<i>11651.8</i>
17.5°	11475.4	11560.5	11456.3	11490.3	<i>11492.5</i>
20°	11297.1	11360.8	11280.1	11307.7	<i>11307.7</i>
22.5°	11082.6	11127.1	11093.2	11112.3	<i>11116.6</i>
25°	10821.3	10838.2	10876.4	10893.5	<i>10885.0</i>
27.5°	10570.8	10549.5	10623.9	10664.2	<i>10642.8</i>
30°	10292.5	10258.5	10345.5	10411.4	<i>10386.0</i>
32.5°	9973.8	9952.7	10052.5	10131.1	<i>10116.2</i>
35°	9672.3	9615.0	9725.3	9844.3	<i>9816.6</i>
37.5°	9315.4	9281.5	9406.7	9532.2	<i>9517.4</i>
40°	8967.1	8909.8	9052.1	9200.8	<i>9185.9</i>
42.5°	8593.4	8525.3	8680.4	8859.0	<i>8841.9</i>
45°	8157.8	8143.0	8281.0	8476.4	<i>8461.6</i>
47.5°	7771.5	7697.1	7890.3	8079.4	<i>8096.5</i>
50°	7304.0	7276.6	7452.9	7682.2	<i>7699.1</i>
52.5°	6847.6	6828.4	7013.0	7244.7	<i>7274.3</i>
55°	6392.9	6344.1	6558.6	6777.4	<i>6794.5</i>
57.5°	5906.7	5855.7	6074.5	6312.3	<i>6348.3</i>
60°	5386.1	5337.4	5577.3	5798.3	<i>4611.1</i>
62.5°	4865.8	4831.9	5082.6	3600.0	<i>2901.4</i>
65°	4307.3	4307.3	4557.8	2614.5	<i>2623.0</i>
67.5°	3784.9	3751.0	3398.4	2348.9	<i>2348.9</i>
70°	3224.1	3236.9	1958.1	2058.2	<i>2060.2</i>
72.5°	2661.3	2708.0	1690.7	1771.2	<i>1775.5</i>
75°	2128.1	2168.6	1408.1	1482.6	<i>1488.8</i>
77.5°	1563.2	1202.1	1131.9	1189.5	<i>1191.6</i>
80°	1098.1	758.2	866.6	921.7	<i>915.4</i>
82.5°	641.3	530.9	635.0	675.5	<i>673.3</i>
85°	278.1	352.6	439.6	475.8	<i>450.2</i>
87.5°	89.1	218.8	273.9	295.3	<i>293.0</i>
90°	7.4	164.5	254.0	298.4	<i>295.3</i>
92.5°	23.3	149.2	241.7	301.9	<i>309.4</i>
95°	64.0	177.0	293.9	384.5	<i>399.4</i>
97.5°	352.3	418.6	424.6	536.7	<i>563.3</i>
100°	751.5	802.8	660.5	705.5	<i>726.3</i>
102.5°	1181.2	1216.1	978.3	844.0	<i>818.3</i>
105°	1385.0	1395.0	1323.7	993.4	<i>898.3</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1138.8	1145.9	1141.9	1131.9	1087.1
115°	969.1	960.2	974.0	974.2	952.1
117.5°	819.8	810.5	818.0	814.2	804.0
120°	689.5	689.5	698.8	685.8	678.4
122.5°	571.4	584.4	590.9	581.6	569.5
125°	471.8	488.5	499.7	491.3	482.0
127.5°	404.8	410.4	423.4	418.8	418.8
130°	348.0	355.5	365.7	367.6	365.7
132.5°	308.9	316.4	325.7	328.5	331.3
135°	279.2	285.7	293.1	295.9	296.8
137.5°	255.0	260.6	266.1	270.8	271.7
140°	234.5	240.1	245.7	249.4	249.4
142.5°	217.8	223.3	228.0	230.8	230.8
145°	202.9	207.5	212.2	215.0	215.9
147.5°	191.7	195.4	200.1	201.0	201.9
150°	181.5	184.2	188.0	189.8	190.8
152.5°	172.2	174.9	178.7	179.6	180.5
155°	163.8	166.6	169.4	171.2	171.2
157.5°	156.3	159.1	161.9	162.8	162.8
160°	150.8	152.6	155.4	155.4	156.3
162.5°	145.2	147.0	148.9	149.8	150.8
165°	140.5	142.4	143.3	144.2	145.2
167.5°	136.8	137.7	138.7	139.6	139.6
170°	133.1	134.0	134.9	134.9	135.9
172.5°	130.3	131.2	132.1	132.1	132.1
175°	128.4	128.4	129.3	129.3	130.3
177.5°	126.6	127.5	127.5	127.5	128.4
180°	126.6	126.6	126.6	126.6	126.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1398.1	1411.4	1386.4	1213.9	<i>1039.2</i>
110°	1293.3	1311.6	1296.5	1235.2	<i>1146.6</i>



(END OF REPORT)