

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: P826598

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826598
REPORT IS A COMBINATION OF REPORTS P826316 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-W-UNV-L830-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

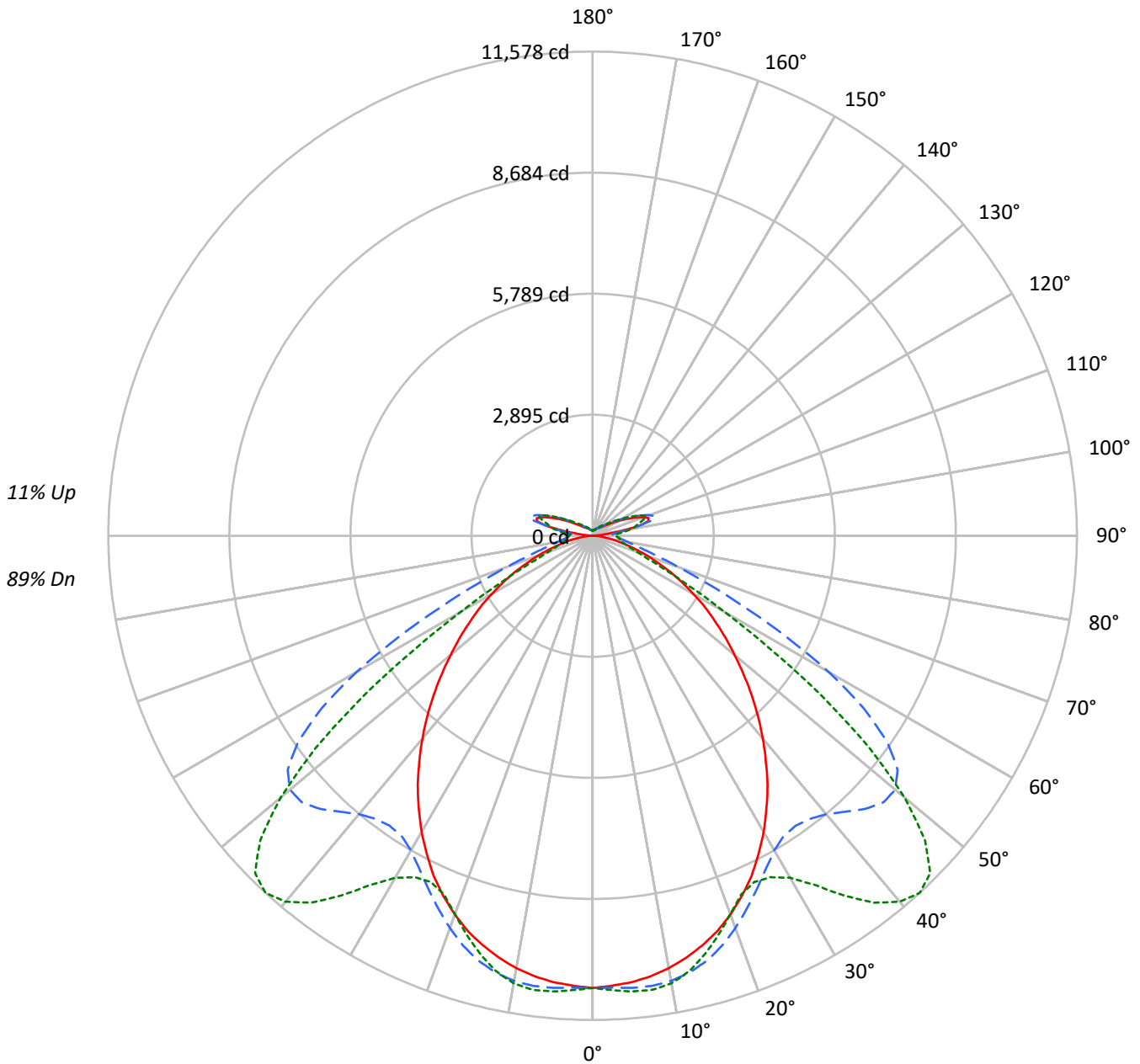
Lumens per Lamp: N/A
Luminaire Lumens: 35713.8 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

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

TEST NUMBER: P826598

CATALOG NUMBER: OHBL-36HE-W-UNV-L830-CD-UPL36

Luminous Intensity Polar Plot





TEST NUMBER: P826598

CATALOG NUMBER: OHBL-36HE-W-UNV-L830-CD-UPL36

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89																			
1	107	102	98	94	103	99	95	92	92	90	87	87	84	82	81	80	78	75																			
2	97	89	83	77	94	87	81	76	81	76	72	76	72	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	67	62	58	63	59	56	53																			
4	81	70	61	55	78	67	60	54	64	57	52	60	54	50	57	52	48	45																			
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	41	39																			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	46	40	36	34																			
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30																			
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	29	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	32	27	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17103	17103	17103
5°	16872	17087	17298
10°	16590	17068	17318
15°	16196	16794	16763
20°	15685	16224	15942
25°	15026	15533	15622
30°	14176	15020	16811
35°	13220	15307	19672
40°	12126	16588	22742
45°	10990	18829	24445
50°	9812	20837	22749
55°	8704	20831	17382
60°	7581	17643	10627
65°	6403	12201	6437
70°	5092	7902	4648
75°	3751	5679	4309
80°	2549	5010	4862
85°	1543	5551	7686



TEST NUMBER: P826598

CATALOG NUMBER: OHBL-36HE-W-UNV-L830-CD-UPL36

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1033.4	2.9
10°-20°	2926.4	8.2
20°-30°	4282.3	12.0
30°-40°	5561.5	15.6
40°-50°	6791.3	19.0
50°-60°	5980.8	16.7
60°-70°	3116.6	8.7
70°-80°	1336.5	3.7
80°-90°	649.0	1.8
90°-100°	557.5	1.6
100°-110°	1347.0	3.8
110°-120°	1070.5	3.0
120°-130°	514.4	1.4
130°-140°	260.2	0.7
140°-150°	149.0	0.4
150°-160°	83.9	0.2
160°-170°	41.0	0.1
170°-180°	12.5	0.0
0°-30°	8242.2	23.1
0°-40°	13803.7	38.7
0°-60°	26575.7	74.4
0°-90°	31677.8	88.7
90°-120°	2975.0	8.3
90°-150°	3898.6	10.9
90°-180°	4036.0	11.3
0°-180°	35713.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10814	10814	10814	10814	10814	
5°	10714	10796	10854	10950	10938	###
15°	10138	10422	10523	10444	10360	2855
25°	8983	9464	9303	9128	9137	4122
35°	7291	8061	8465	9872	10504	4545
45°	5369	6755	9233	11178	11412	4140
55°	3574	5917	8598	7539	6701	3208
65°	2051	4100	3936	2189	1883	2029
75°	826	1918	1265	866	821	901
85°	175	684	644	630	637	195
90°	10	293	483	552	565	17
95°	62	260	492	592	619	218
105°	1384	1453	1509	1223	1135	1316
115°	972	992	1088	1125	1120	983
125°	488	512	579	594	587	458
135°	293	300	330	359	362	232
145°	222	222	228	245	251	140
155°	182	185	183	185	185	82
165°	140	142	143	144	145	40
175°	128	128	129	129	130	12
180°	127	127	127	127	127	



TEST NUMBER: P826598

CATALOG NUMBER: OHBL-36HE-W-UNV-L830-CD-UPL36

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10814.5	10814.5	10814.5	10814.5	10814.5
2.5°	10767.8	10814.5	10816.9	10882.2	10875.2
5°	10714.1	10795.8	10854.2	10949.8	10938.2
7.5°	10625.5	10753.9	10856.5	10961.5	10952.2
10°	10499.6	10674.5	10809.8	10896.2	10868.1
12.5°	10336.2	10567.2	10700.2	10718.9	10665.2
15°	10137.8	10422.5	10522.8	10443.5	10359.5
17.5°	9913.9	10247.6	10282.5	10109.8	10004.9
20°	9633.9	10014.2	9979.2	9741.2	9624.6
22.5°	9323.6	9757.5	9645.6	9395.9	9283.9
25°	8982.9	9463.6	9302.6	9127.5	9136.9
27.5°	8583.9	9130.0	8973.6	9052.9	9202.3
30°	8178.0	8780.0	8684.3	9146.2	9440.2
32.5°	7732.4	8420.6	8507.0	9419.3	9899.9
35°	7291.4	8061.3	8465.0	9871.9	10504.2
37.5°	6803.7	7697.3	8532.6	10394.5	11057.1
40°	6330.0	7342.6	8686.6	10863.5	11423.5
42.5°	5847.1	7025.3	8945.6	11141.2	11577.5
45°	5368.7	6754.7	9232.6	11178.5	11411.8
47.5°	4890.4	6526.1	9430.9	10882.2	10774.8
50°	4428.4	6323.0	9444.9	10170.5	9731.9
52.5°	3996.8	6136.4	9188.2	9036.6	8355.3
55°	3574.5	5917.0	8598.0	7538.6	6701.0
57.5°	3189.5	5613.8	7688.0	5928.8	5014.1
60°	2781.2	5203.1	6512.0	4337.5	3616.5
62.5°	2405.6	4692.1	5193.8	3019.2	2599.2
65°	2050.9	4099.5	3936.2	2188.6	1882.9
67.5°	1675.3	3485.9	2904.8	1595.9	1399.9
70°	1381.3	2916.5	2162.9	1241.3	1126.9
72.5°	1080.3	2375.2	1616.9	1008.0	945.0
75°	826.0	1917.9	1264.6	865.6	821.3
77.5°	609.0	1516.6	1017.3	765.3	723.3
80°	426.9	1194.6	851.6	683.7	667.3
82.5°	287.0	923.9	725.6	651.0	653.3
85°	175.0	683.7	643.9	630.0	637.0
87.5°	84.0	485.3	552.9	574.0	580.9
90°	9.8	292.9	483.2	552.3	564.9
92.5°	23.3	244.8	445.0	523.3	540.6
95°	62.3	260.1	491.9	592.0	618.6
97.5°	352.7	493.1	628.1	752.0	781.4
100°	754.2	869.4	865.3	928.2	953.9
102.5°	1177.6	1277.5	1180.7	1070.0	1046.8
105°	1383.7	1453.3	1509.1	1223.0	1134.6



TEST NUMBER: P826598

CATALOG NUMBER: OHBL-36HE-W-UNV-L830-CD-UPL36

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1139.9	1184.8	1272.5	1301.5	1276.4
115°	972.4	992.1	1088.2	1125.0	1120.4
117.5°	836.2	852.5	937.0	961.3	953.4
120°	705.9	724.5	801.5	816.5	811.4
122.5°	587.7	612.4	681.9	698.3	688.5
125°	488.2	511.9	579.0	594.0	587.0
127.5°	418.8	426.8	491.1	509.8	512.1
130°	362.0	369.4	421.7	446.9	449.7
132.5°	322.9	330.3	372.3	398.5	405.9
135°	293.1	299.6	330.4	358.9	362.2
137.5°	268.9	274.5	296.5	324.5	330.1
140°	248.5	254.0	269.0	296.0	298.4
142.5°	234.1	237.3	249.0	270.4	272.7
145°	221.6	221.5	228.5	245.3	250.9
147.5°	210.4	211.8	216.4	226.7	229.9
150°	200.2	203.0	201.9	208.5	214.1
152.5°	190.9	193.6	192.6	193.6	199.2
155°	182.5	185.3	183.3	185.2	185.2
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°	1399.1	1462.6	1552.7	1430.4	1273.3
110°	1292.1	1355.5	1443.8	1428.1	1359.3



(END OF REPORT)