

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: P828397

Luminaire Tested: **OHBL-36HE-W-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828397
REPORT IS A COMBINATION OF REPORTS P826172 AND G3-2310-221-8
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-36HE-W-UNV-L940-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

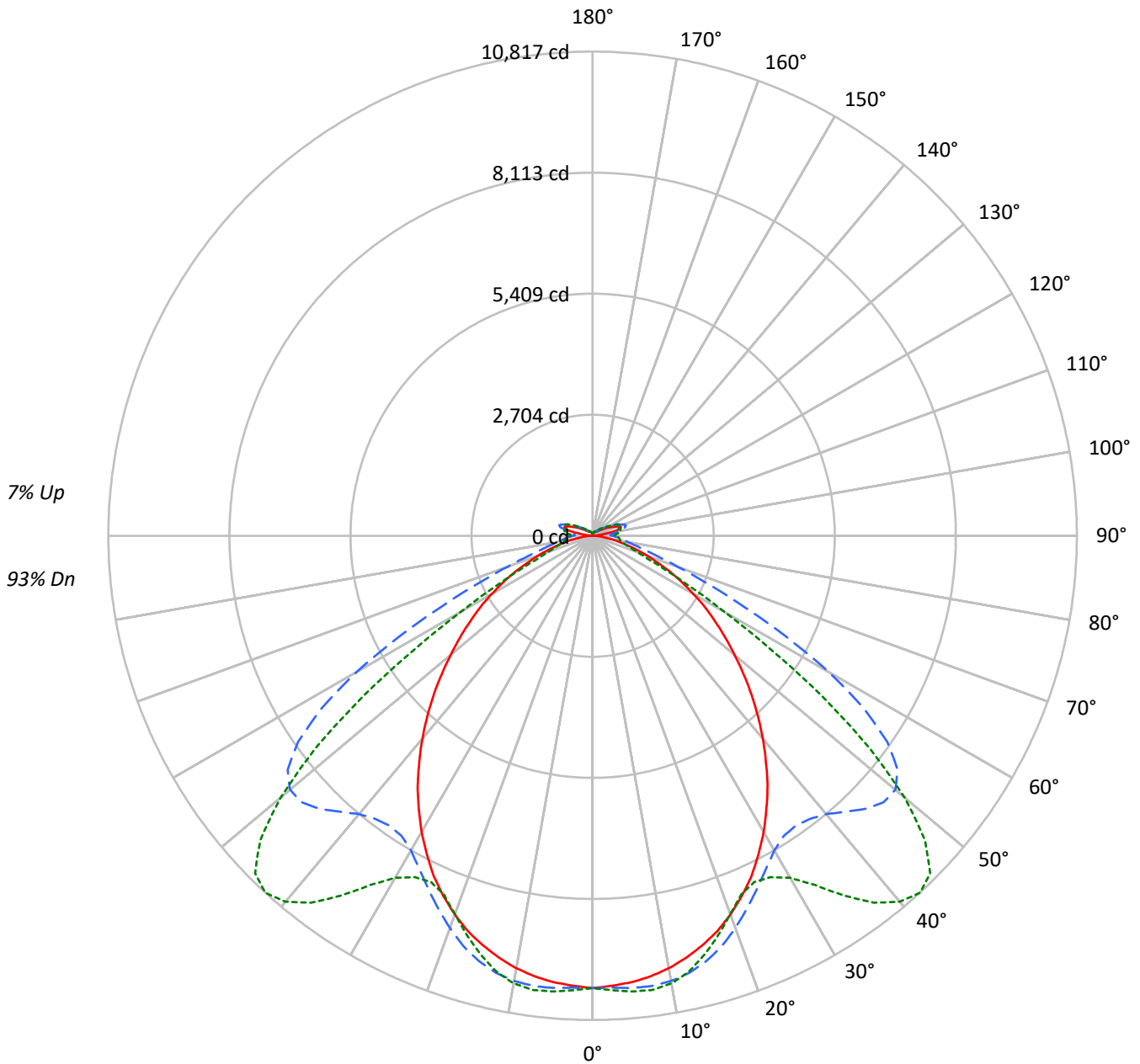
Lumens per Lamp: N/A
Luminaire Lumens: 31810.3 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 224.3
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: P828397

CATALOG NUMBER: OHBL-36HE-W-UNV-L940-CD-UPL18

Luminous Intensity Polar Plot





TEST NUMBER: P828397

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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	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	96	93	95	92	89	90	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	71	65	86	77	70	64	73	67	62	70	64	60	66	62	58	56																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	48																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	41	36	47	40	35	45	39	34	43	38	33	31																			
8	59	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	28																			
9	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	25																			
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15980	15980	15980
5°	15764	15965	16162
10°	15500	15947	16181
15°	15133	15691	15662
20°	14655	15158	14895
25°	14039	14513	14597
30°	13245	14034	15707
35°	12351	14302	18381
40°	11329	15499	21249
45°	10268	17593	22840
50°	9168	19469	21255
55°	8133	19463	16240
60°	7083	16485	9929
65°	5983	11399	6014
70°	4757	7383	4343
75°	3504	5306	4027
80°	2382	4681	4543
85°	1441	5187	7180



TEST NUMBER: P828397

CATALOG NUMBER: OHBL-36HE-W-UNV-L940-CD-UPL18

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	965.6	3.0
10°-20°	2734.2	8.6
20°-30°	4001.1	12.6
30°-40°	5196.3	16.3
40°-50°	6345.3	19.9
50°-60°	5588.0	17.6
60°-70°	2911.9	9.2
70°-80°	1248.7	3.9
80°-90°	603.6	1.9
90°-100°	430.6	1.4
100°-110°	692.1	2.2
110°-120°	547.7	1.7
120°-130°	269.6	0.8
130°-140°	134.8	0.4
140°-150°	75.5	0.2
150°-160°	40.9	0.1
160°-170°	18.7	0.1
170°-180°	5.7	0.0
0°-30°	7700.9	24.2
0°-40°	12897.1	40.5
0°-60°	24830.4	78.1
0°-90°	29594.7	93.0
90°-120°	1670.4	5.3
90°-150°	2150.3	6.8
90°-180°	2216.0	7.0
0°-180°	31810.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10104	10104	10104	10104	10104	
5°	10010	10087	10141	10231	10220	949
15°	9472	9738	9832	9758	9679	2667
25°	8393	8842	8692	8528	8537	3852
35°	6812	7532	7909	9224	9814	4246
45°	5016	6311	8626	10444	10662	3868
55°	3340	5528	8033	7044	6261	2997
65°	1916	3830	3678	2045	1759	1896
75°	772	1792	1182	809	767	841
85°	164	639	602	589	595	182
90°	6	253	426	492	508	14
95°	37	206	428	516	548	107
105°	653	714	749	630	604	620
115°	459	495	577	600	603	463
125°	233	250	308	329	329	217
135°	142	144	170	196	199	112
145°	111	109	114	128	132	70
155°	92	94	90	91	91	41
165°	64	65	65	66	66	18
175°	58	58	59	59	59	6
180°	58	58	58	58	58	



TEST NUMBER: P828397

CATALOG NUMBER: OHBL-36HE-W-UNV-L940-CD-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10104.3	10104.3	10104.3	10104.3	<i>10104.3</i>
2.5°	10060.7	10104.3	10106.5	10167.5	<i>10161.0</i>
5°	10010.5	10086.9	10141.4	10230.8	<i>10219.9</i>
7.5°	9927.8	10047.6	10143.5	10241.6	<i>10232.9</i>
10°	9810.0	9973.5	10099.9	10180.6	<i>10154.4</i>
12.5°	9657.4	9873.2	9997.5	10015.0	<i>9964.8</i>
15°	9472.1	9738.0	9831.8	9757.7	<i>9679.2</i>
17.5°	9262.8	9574.6	9607.3	9445.9	<i>9347.8</i>
20°	9001.2	9356.5	9323.8	9101.5	<i>8992.5</i>
22.5°	8711.3	9116.7	9012.1	8778.9	<i>8674.2</i>
25°	8393.0	8842.1	8691.7	8528.1	<i>8536.9</i>
27.5°	8020.2	8530.4	8384.3	8458.4	<i>8597.9</i>
30°	7640.9	8203.4	8114.0	8545.6	<i>8820.3</i>
32.5°	7224.6	7867.6	7948.3	8800.7	<i>9249.8</i>
35°	6812.5	7531.9	7909.1	9223.6	<i>9814.4</i>
37.5°	6356.9	7191.8	7972.3	9711.9	<i>10331.0</i>
40°	5914.3	6860.4	8116.2	10150.1	<i>10673.3</i>
42.5°	<i>5463.1</i>	<i>6564.0</i>	<i>8358.1</i>	<i>10409.5</i>	<i>10817.2</i>
45°	5016.2	6311.1	8626.3	10444.4	<i>10662.3</i>
47.5°	4569.3	6097.5	8811.6	10167.5	<i>10067.2</i>
50°	4137.6	5907.8	8824.6	9502.6	<i>9092.8</i>
52.5°	3734.4	5733.4	8584.8	8443.2	<i>7806.6</i>
55°	3339.8	5528.4	8033.3	7043.5	<i>6261.0</i>
57.5°	2980.0	5245.1	7183.1	5539.4	<i>4684.8</i>
60°	2598.6	4861.4	6084.4	4052.7	<i>3379.0</i>
62.5°	2247.6	4384.0	4852.7	2820.9	<i>2428.5</i>
65°	1916.3	3830.3	3677.7	2044.8	<i>1759.2</i>
67.5°	1565.3	3256.9	2714.1	1491.1	<i>1308.0</i>
70°	1290.6	2725.0	2020.8	1159.8	<i>1052.9</i>
72.5°	1009.3	2219.3	1510.7	941.8	<i>882.9</i>
75°	771.7	1791.9	1181.6	808.8	<i>767.4</i>
77.5°	569.0	1417.0	950.5	715.0	<i>675.8</i>
80°	398.9	1116.2	795.7	638.8	<i>623.5</i>
82.5°	268.1	863.3	678.0	608.3	<i>610.4</i>
85°	163.5	638.8	601.7	588.6	<i>595.1</i>
87.5°	78.5	453.4	516.6	536.3	<i>542.8</i>
90°	5.7	252.8	426.3	492.5	<i>507.8</i>
92.5°	11.3	205.3	396.6	471.6	<i>489.4</i>
95°	37.4	206.5	428.3	515.8	<i>547.6</i>
97.5°	173.9	296.4	490.4	585.2	<i>605.7</i>
100°	356.0	462.8	560.7	629.9	<i>641.7</i>
102.5°	553.4	631.0	621.5	631.1	<i>630.3</i>
105°	653.0	714.5	749.2	629.7	<i>604.5</i>



TEST NUMBER: P828397

CATALOG NUMBER: OHBL-36HE-W-UNV-L940-CD-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	536.4	579.2	660.3	676.9	659.6
115°	459.1	494.8	576.8	599.9	603.4
117.5°	395.2	421.8	495.5	519.9	523.0
120°	332.6	356.1	422.8	446.4	446.8
122.5°	280.5	299.2	362.4	383.8	384.2
125°	232.7	249.6	308.0	328.9	329.3
127.5°	197.4	207.4	263.2	284.1	284.6
130°	173.0	179.1	223.6	246.2	251.5
132.5°	156.5	159.1	194.8	217.5	223.6
135°	141.7	144.3	170.5	196.2	199.3
137.5°	130.4	133.0	151.8	175.4	180.6
140°	120.9	123.5	134.9	158.3	161.5
142.5°	115.3	115.6	124.9	143.1	146.2
145°	111.4	108.7	113.5	127.5	131.8
147.5°	105.3	104.9	106.6	117.0	119.2
150°	100.1	101.8	99.1	104.4	109.6
152.5°	96.6	97.5	94.8	95.6	100.1
155°	92.2	94.0	90.4	91.3	91.3
157.5°	72.2	73.0	73.9	74.8	74.8
160°	69.6	69.6	70.4	71.3	71.3
162.5°	66.9	66.9	67.8	68.7	68.7
165°	64.3	65.2	65.2	66.1	66.1
167.5°	62.6	62.6	63.5	63.5	64.3
170°	60.9	60.9	61.7	61.7	61.7
172.5°	59.1	60.0	60.0	60.0	60.0
175°	58.3	58.3	59.1	59.1	59.1
177.5°	57.4	58.3	58.3	58.3	58.3
180°	58.3	58.3	58.3	58.3	58.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	661.2	717.9	783.0	686.2	615.0
110°	606.4	661.4	737.7	720.5	664.9



(END OF REPORT)