

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: P828407

Luminaire Tested: **OHBL-36SE-NL-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828407
REPORT IS A COMBINATION OF REPORTS P826177 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-36SE-NL-UNV-L940-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

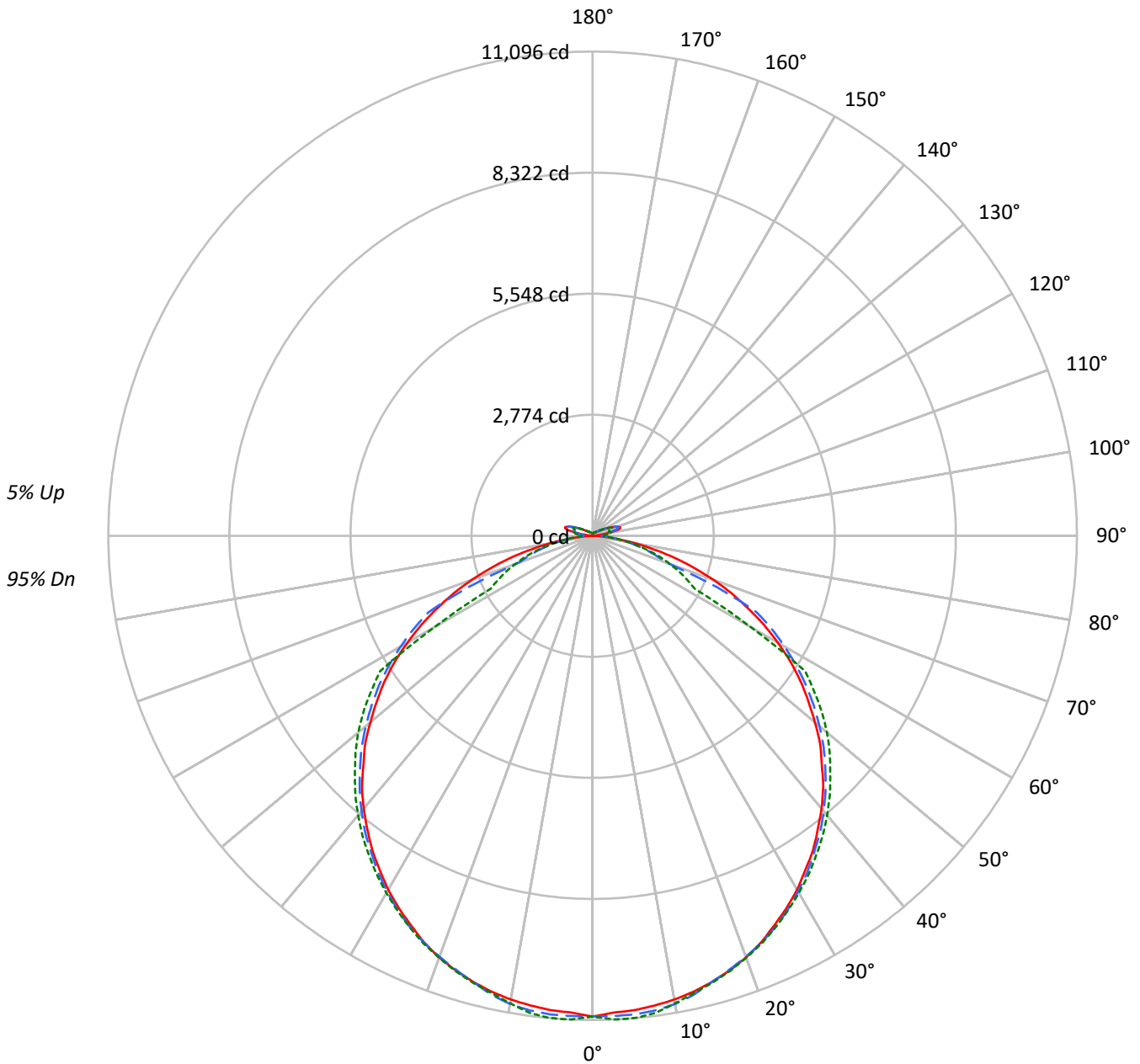
Lumens per Lamp: N/A
Luminaire Lumens: 32483.3 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 223.3
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

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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95																			
1	108	103	99	96	105	101	97	94	96	93	90	91	88	86	86	84	83	80																			
2	99	91	84	78	95	88	82	77	84	79	75	80	76	72	76	73	70	67																			
3	90	80	72	65	87	78	70	65	74	68	63	71	65	61	67	63	59	57																			
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49																			
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42																			
6	70	57	48	42	68	56	47	41	53	46	40	51	45	40	49	43	39	37																			
7	65	51	43	37	63	50	42	36	48	41	36	46	40	35	45	39	35	33																			
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	29																			
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26																			
10	53	40	32	27	51	39	31	26	38	31	26	36	30	26	35	29	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17421	17421	17421
5°	17241	17393	17572
10°	17161	17317	17391
15°	17072	17058	17239
20°	16960	16919	17154
25°	16750	16817	17075
30°	16573	16636	17000
35°	16358	16420	16934
40°	16097	16218	16883
45°	15730	15931	16779
50°	15338	15608	16712
55°	14862	15198	16428
60°	14143	14589	12691
65°	13107	13805	8453
70°	11770	7108	8082
75°	9802	6437	7535
80°	6921	5405	6598
85°	2809	4365	5709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1046.5	3.2
10°-20°	2996.4	9.2
20°-30°	4559.3	14.0
30°-40°	5543.5	17.1
40°-50°	5828.7	17.9
50°-60°	5322.3	16.4
60°-70°	3411.9	10.5
70°-80°	1611.7	5.0
80°-90°	450.8	1.4
90°-100°	267.2	0.8
100°-110°	549.4	1.7
110°-120°	453.2	1.4
120°-130°	213.3	0.7
130°-140°	106.6	0.3
140°-150°	61.9	0.2
150°-160°	36.1	0.1
160°-170°	18.7	0.1
170°-180°	5.7	0.0
0°-30°	8602.2	26.5
0°-40°	14145.7	43.5
0°-60°	25296.8	77.9
0°-90°	30771.2	94.7
90°-120°	1269.8	3.9
90°-150°	1651.5	5.1
90°-180°	1712.0	5.3
0°-180°	32483.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11015	11015	11015	11015	11015	
5°	10913	10955	11012	11072	11095	###
15°	10582	10662	10580	10596	10604	2988
25°	9848	9863	9898	9914	9906	4544
35°	8802	8750	8850	8959	8934	5501
45°	7424	7410	7536	7714	7700	5738
55°	5818	5774	5969	6168	6183	5189
65°	3920	3920	4148	2379	2387	3886
75°	1937	1974	1282	1349	1355	2042
85°	253	321	400	433	410	374
90°	4	130	207	250	250	14
95°	39	127	240	317	338	107
105°	654	660	575	414	383	621
115°	456	465	470	459	446	457
125°	217	228	234	233	231	204
135°	129	131	136	137	138	102
145°	94	96	98	99	99	59
155°	75	76	77	78	78	35
165°	64	65	65	66	66	18
175°	58	58	59	59	59	6
180°	58	58	58	58	58	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11015.4	11015.4	11015.4	11015.4	<i>11015.4</i>
2.5°	<i>10938.0</i>	<i>10974.9</i>	<i>11015.4</i>	<i>11067.6</i>	<i>11096.5</i>
5°	10912.9	10955.4	11011.5	11071.5	<i>11094.6</i>
7.5°	10858.8	10918.6	10972.8	11015.4	<i>11028.9</i>
10°	10791.1	10862.8	10893.6	10889.8	<i>10880.1</i>
12.5°	10700.3	10775.8	10766.2	10721.6	<i>10729.3</i>
15°	10582.4	10661.6	10580.5	10595.9	<i>10603.7</i>
17.5°	10443.2	10520.6	10425.9	10456.7	<i>10458.8</i>
20°	10280.9	10338.9	10265.4	10290.6	<i>10290.6</i>
22.5°	10085.7	10126.2	10095.4	10112.8	<i>10116.7</i>
25°	9847.9	9863.3	9898.1	9913.7	<i>9905.8</i>
27.5°	9620.0	9600.6	9668.3	9704.9	<i>9685.4</i>
30°	9366.6	9335.7	9415.0	9474.9	<i>9451.7</i>
32.5°	9076.7	9057.4	9148.3	9219.7	<i>9206.2</i>
35°	8802.3	8750.1	8850.5	8958.8	<i>8933.6</i>
37.5°	8477.5	8446.6	8560.6	8674.8	<i>8661.2</i>
40°	8160.5	8108.4	8237.9	8373.1	<i>8359.6</i>
42.5°	7820.4	7758.4	7899.6	8062.1	<i>8046.5</i>
45°	7424.0	7410.5	7536.2	7714.0	<i>7700.5</i>
47.5°	7072.5	7004.8	7180.5	7352.6	<i>7368.2</i>
50°	6647.0	6622.0	6782.4	6991.2	<i>7006.6</i>
52.5°	6231.6	6214.2	6382.2	6593.0	<i>6620.0</i>
55°	5817.8	5773.5	5968.6	6167.8	<i>6183.3</i>
57.5°	5375.4	5328.9	5528.1	5744.6	<i>5777.3</i>
60°	4901.7	4857.2	5075.6	5276.7	<i>4196.3</i>
62.5°	4428.2	4397.2	4625.4	3276.2	<i>2640.4</i>
65°	3919.8	3919.8	4147.8	2379.3	<i>2387.1</i>
67.5°	3444.5	3413.5	3092.7	2137.6	<i>2137.6</i>
70°	2934.1	2945.8	1782.0	1873.0	<i>1874.9</i>
72.5°	2421.8	2464.4	1538.7	1612.0	<i>1615.8</i>
75°	1936.7	1973.6	1281.5	1349.2	<i>1354.9</i>
77.5°	1422.7	1094.0	1030.1	1082.5	<i>1084.4</i>
80°	999.3	690.1	788.7	838.8	<i>833.1</i>
82.5°	583.7	483.2	577.9	614.7	<i>612.7</i>
85°	253.1	320.9	400.0	433.0	<i>409.7</i>
87.5°	81.0	199.1	249.3	268.7	<i>266.7</i>
90°	3.5	130.0	207.4	249.7	<i>250.4</i>
92.5°	11.3	113.6	202.5	259.4	<i>268.2</i>
95°	38.8	127.4	239.9	317.3	<i>338.1</i>
97.5°	173.5	225.7	297.8	380.5	<i>398.2</i>
100°	353.4	399.7	367.8	419.2	<i>426.4</i>
102.5°	556.5	573.1	431.3	418.3	<i>415.1</i>
105°	653.9	659.5	575.1	414.3	<i>382.9</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	535.1	542.4	537.8	518.1	482.6
115°	455.7	464.7	469.6	458.6	446.1
117.5°	379.9	382.6	384.3	382.6	383.4
120°	317.3	323.4	326.9	324.3	322.6
122.5°	265.2	273.0	277.4	274.7	273.0
125°	217.4	227.8	233.9	233.0	231.3
127.5°	184.3	192.1	200.0	199.1	197.4
130°	160.0	166.1	171.3	172.2	173.0
132.5°	143.5	146.1	151.3	152.2	153.9
135°	128.7	131.3	135.6	137.4	138.2
137.5°	117.4	120.0	123.5	125.2	126.1
140°	107.8	110.4	113.0	114.8	115.6
142.5°	100.0	102.6	105.2	106.1	106.9
145°	93.9	95.6	98.2	99.1	99.1
147.5°	87.8	89.6	91.3	93.0	93.0
150°	82.6	84.3	86.1	86.9	87.8
152.5°	79.1	80.0	81.7	82.6	82.6
155°	74.8	76.5	77.4	78.2	78.2
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°	660.0	669.6	627.0	483.4	396.1
110°	607.2	619.9	599.6	539.8	466.1



(END OF REPORT)