

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: P827203

Luminaire Tested: **OHBL-36SE-MFL-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827203
REPORT IS A COMBINATION OF REPORTS P826175 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-MFL-UNV-L840-CD-UPL18
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

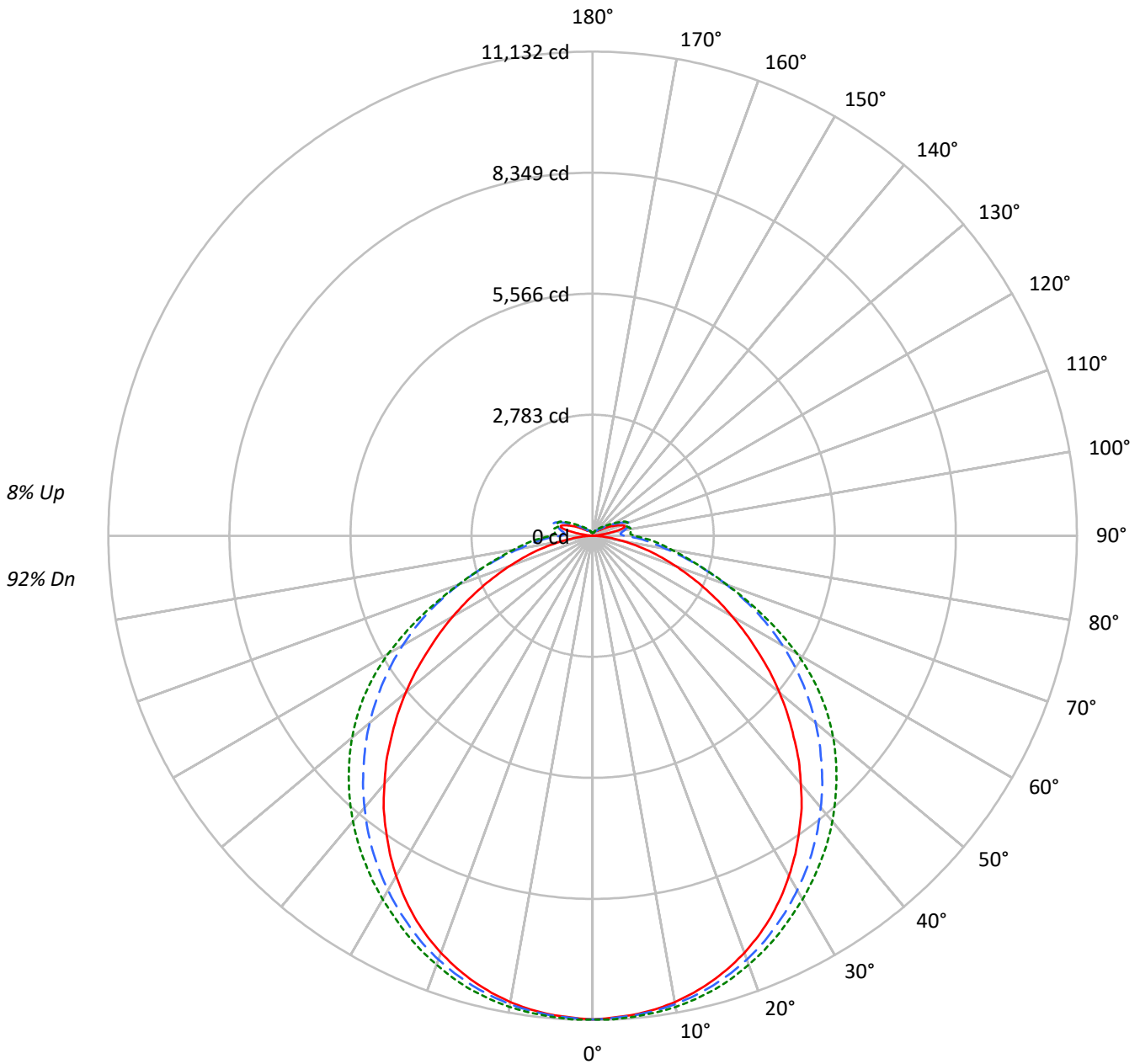
Lumens per Lamp: N/A
Luminaire Lumens: 35071.9 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	92	89	86	87	85	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	68	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	45																			
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	34	46	39	34	44	38	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	26	36	30	26	24																			
10	51	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17587	17587	17587
5°	17401	17420	17548
10°	17206	17267	17530
15°	16940	17083	17484
20°	16612	16858	17383
25°	16198	16578	17283
30°	15654	16273	17186
35°	15011	15950	17121
40°	14254	15576	17068
45°	13376	15170	16983
50°	12423	14759	16872
55°	11273	14256	16611
60°	10096	13664	15955
65°	8820	12907	14776
70°	7444	11943	13515
75°	6043	10828	12853
80°	4339	10022	13464
85°	2447	10417	16878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1053.7	3.0
10°-20°	3023.0	8.6
20°-30°	4571.8	13.0
30°-40°	5488.5	15.6
40°-50°	5668.7	16.2
50°-60°	5100.1	14.5
60°-70°	3841.8	11.0
70°-80°	2319.8	6.6
80°-90°	1139.1	3.2
90°-100°	648.8	1.8
100°-110°	867.2	2.5
110°-120°	670.9	1.9
120°-130°	335.8	1.0
130°-140°	170.2	0.5
140°-150°	94.3	0.3
150°-160°	50.1	0.1
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	8648.5	24.7
0°-40°	14137.0	40.3
0°-60°	24905.7	71.0
0°-90°	32206.4	91.8
90°-120°	2186.9	6.2
90°-150°	2787.3	7.9
90°-180°	2866.0	8.2
0°-180°	35071.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11121	11121	11121	11121	11121	
5°	11050	11080	11066	11110	11096	###
15°	10604	10655	10704	10794	10805	2989
25°	9684	9790	9928	10084	10108	4454
35°	8279	8472	8821	9088	9142	5176
45°	6535	6864	7438	7844	7928	5045
55°	4630	5108	5884	6328	6404	4151
65°	2825	3402	4164	4371	4322	2807
75°	1331	1911	2411	2474	2450	1420
85°	278	732	1208	1374	1399	321
90°	4	311	725	916	956	20
95°	52	275	646	826	874	131
105°	760	846	925	833	815	722
115°	535	582	703	760	770	540
125°	272	292	381	429	435	255
135°	167	176	213	256	268	132
145°	135	134	140	163	171	85
155°	113	118	116	114	117	49
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11120.6	11120.6	11120.6	<i>11120.6</i>	11120.6
2.5°	<i>11087.9</i>	<i>11115.1</i>	<i>11098.8</i>	<i>11134.2</i>	<i>11131.5</i>
5°	11049.8	11079.8	11066.1	<i>11109.7</i>	11096.1
7.5°	10984.5	11017.2	11014.4	<i>11063.4</i>	11058.0
10°	10889.2	10924.6	10935.5	<i>11000.8</i>	11000.8
12.5°	10758.6	10804.9	10832.1	<i>10911.0</i>	10913.7
15°	10603.5	10655.2	10704.2	<i>10794.0</i>	10804.9
17.5°	10415.7	10481.0	10549.0	<i>10652.5</i>	10666.1
20°	10203.4	10276.9	10369.4	<i>10478.3</i>	10494.6
22.5°	9958.4	10045.5	10165.3	<i>10293.2</i>	10312.3
25°	9683.6	9789.7	9928.5	<i>10083.6</i>	10108.1
27.5°	9370.6	9493.0	9680.8	<i>9855.0</i>	9876.8
30°	9030.4	9174.6	9408.7	<i>9615.5</i>	9650.9
32.5°	8671.1	8837.1	9125.6	<i>9357.0</i>	9405.9
35°	8279.2	8472.4	8820.8	<i>9087.5</i>	9142.0
37.5°	7892.7	8105.0	8499.6	<i>8804.5</i>	8869.8
40°	7440.9	7704.9	8156.7	<i>8494.2</i>	8573.1
42.5°	7016.4	7302.1	7813.8	<i>8181.2</i>	8257.4
45°	6534.6	6863.9	7438.2	<i>7843.7</i>	7928.1
47.5°	6082.8	6439.4	7076.2	<i>7495.4</i>	7582.5
50°	5606.6	5998.5	6689.8	<i>7127.9</i>	7217.8
52.5°	5130.3	5552.1	6289.7	<i>6744.2</i>	6828.6
55°	4629.5	5108.5	5884.2	<i>6327.8</i>	6404.0
57.5°	4164.1	4670.3	5467.8	<i>5889.6</i>	5935.9
60°	3704.1	4229.4	5043.2	<i>5413.3</i>	5429.6
62.5°	3255.1	3807.6	4607.7	<i>4901.7</i>	4879.9
65°	2825.1	3402.0	4164.1	<i>4370.9</i>	4321.9
67.5°	2411.4	3007.4	3709.6	<i>3842.9</i>	3777.6
70°	2019.4	2623.7	3268.7	<i>3336.7</i>	3276.8
72.5°	1673.8	2259.0	2822.3	<i>2879.5</i>	2835.9
75°	1330.9	1910.6	2411.4	<i>2474.0</i>	2449.5
77.5°	1009.7	1573.1	2033.1	<i>2114.7</i>	2120.1
80°	726.7	1265.6	1703.7	<i>1831.7</i>	1848.0
82.5°	479.0	982.5	1428.9	<i>1592.2</i>	1616.6
85°	277.6	732.1	1208.4	<i>1374.4</i>	1398.9
87.5°	119.8	528.0	971.6	<i>1121.3</i>	1151.2
90°	4.0	310.8	725.3	<i>915.9</i>	956.3
92.5°	21.2	269.8	648.3	<i>832.6</i>	870.6
95°	51.6	275.2	646.1	<i>825.6</i>	874.1
97.5°	211.3	376.3	687.1	<i>856.3</i>	896.8
100°	418.3	563.5	743.2	<i>874.5</i>	902.3
102.5°	645.3	753.2	794.2	<i>850.9</i>	864.0
105°	760.1	845.6	925.4	<i>832.9</i>	815.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	623.8	679.5	800.8	855.6	841.5
115°	534.8	581.6	703.1	759.7	769.6
117.5°	461.5	494.4	605.3	663.2	672.3
120°	389.5	418.3	520.2	571.7	580.6
122.5°	329.5	352.1	446.9	495.6	501.8
125°	271.8	291.9	380.6	428.6	434.7
127.5°	231.1	245.5	325.3	373.2	379.4
130°	203.1	212.8	278.6	325.9	335.1
132.5°	184.1	192.5	242.0	286.6	299.5
135°	167.1	175.5	213.2	256.0	267.9
137.5°	154.1	162.5	188.3	228.4	240.3
140°	145.8	151.5	168.1	202.8	214.6
142.5°	139.5	142.5	150.9	181.9	191.0
145°	135.2	134.5	140.2	163.0	171.2
147.5°	128.2	130.2	132.2	145.1	153.3
150°	122.2	126.9	126.2	129.9	139.1
152.5°	118.2	121.9	121.2	119.5	124.9
155°	113.2	117.9	116.2	114.5	117.2
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	767.1	846.0	954.0	884.4	811.0
110°	704.1	780.1	897.1	913.3	857.9



(END OF REPORT)