

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: P830853

Luminaire Tested: **OHBL-90SE-N-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-90SE-N-UNV-L840-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

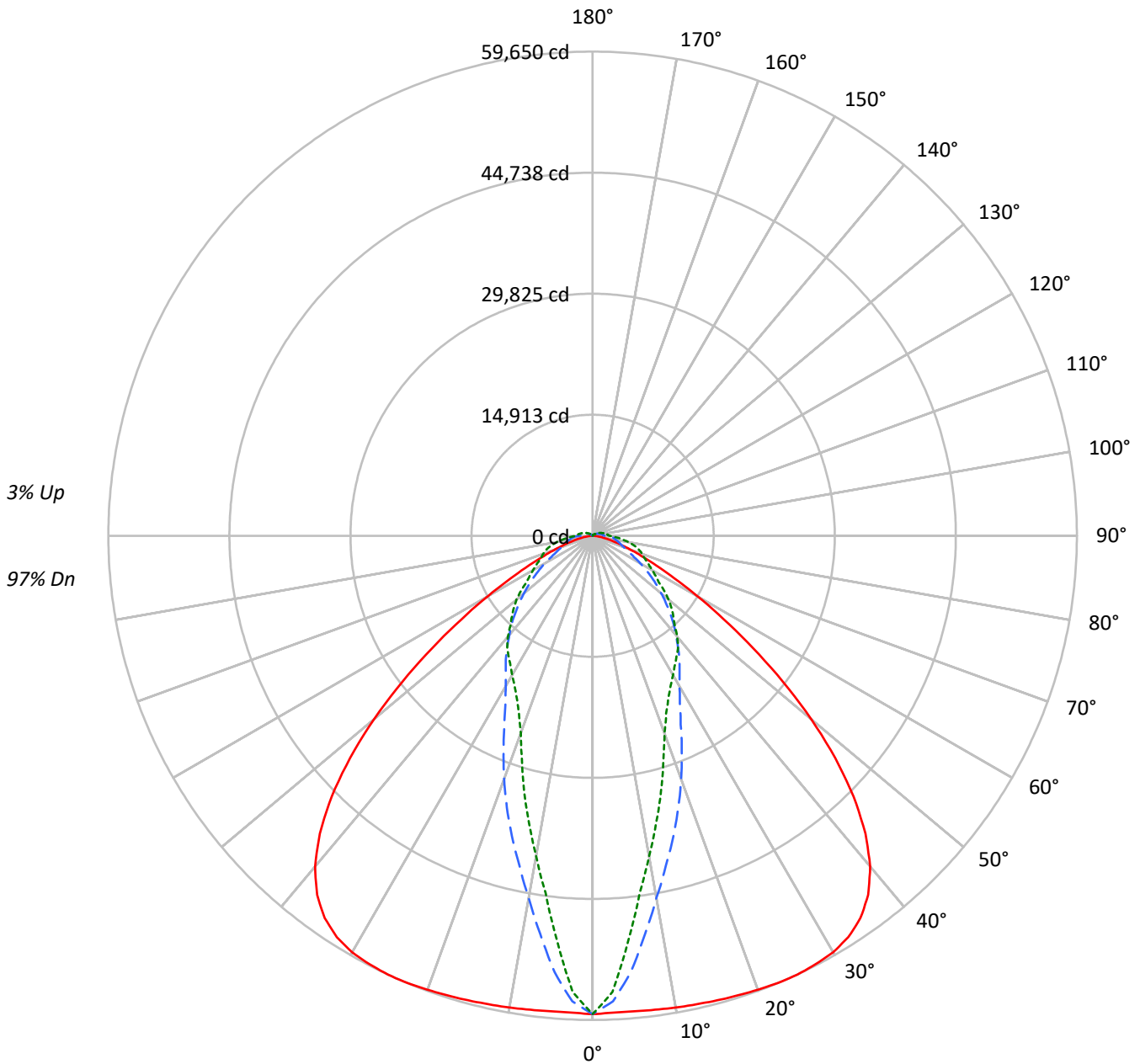
Lumens per Lamp: N/A
Luminaire Lumens: 86969.0 lumens
Efficiency: N/A
Efficacy: 164.4 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 529
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97					
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82					
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71					
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62					
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54					
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48					
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43					
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39					
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35					
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32					
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30					

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	93190	93190	93190
5°	93001	84904	78955
10°	94050	71550	63351
15°	95887	61221	52030
20°	98580	51789	42111
25°	101990	42888	36924
30°	105515	36967	34327
35°	107711	33709	32731
40°	105867	30468	31080
45°	97394	27553	28803
50°	82170	24362	27065
55°	62437	21360	24118
60°	43755	18340	23129
65°	29432	15819	22692
70°	20100	14876	23877
75°	13948	15387	25619
80°	9602	17123	26556
85°	5616	21612	28227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4960.3	5.7
10°-20°	11668.9	13.4
20°-30°	14626.9	16.8
30°-40°	15520.7	17.8
40°-50°	14033.2	16.1
50°-60°	10175.0	11.7
60°-70°	6385.3	7.3
70°-80°	4225.6	4.9
80°-90°	2434.4	2.8
90°-100°	1179.4	1.4
100°-110°	814.0	0.9
110°-120°	502.3	0.6
120°-130°	243.3	0.3
130°-140°	111.9	0.1
140°-150°	61.1	0.1
150°-160°	26.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	31256.1	35.9
0°-40°	46776.9	53.8
0°-60°	70985.1	81.6
0°-90°	84030.4	96.6
90°-120°	2495.7	2.9
90°-150°	2912.0	3.3
90°-180°	2939.0	3.4
0°-180°	86969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	58926	58926	58926	58926	58926	
5°	58808	57300	53935	51434	50138	###
15°	59257	48298	38361	34115	32567	16805
25°	59650	37346	25686	22798	22074	27557
35°	57513	24828	18642	18059	18053	35753
45°	45466	15726	13510	13836	14071	34636
55°	24071	9747	8816	9562	9904	21749
65°	8609	5653	5104	6539	7268	8958
75°	2658	3045	3427	5322	5642	2963
85°	466	1262	2507	3488	3202	558
90°	0	527	1452	2047	2064	30
95°	22	370	1279	1739	1817	20
105°	45	247	931	1234	1268	45
115°	62	174	628	785	802	60
125°	67	90	320	404	398	59
135°	56	67	140	219	219	44
145°	67	73	84	129	123	40
155°	67	84	90	95	84	21
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	58926.1	58926.1	58926.1	58926.1	58926.1
2.5°	58802.8	58466.3	57417.5	56778.2	56239.8
5°	58808.4	57299.7	53934.8	51433.5	50138.0
7.5°	58892.5	55538.7	49476.2	45825.2	44400.7
10°	59021.5	53357.1	45314.9	41422.7	40093.6
12.5°	59116.8	50900.7	41652.7	37654.0	36195.8
15°	59257.0	48298.5	38360.6	34115.1	32567.2
17.5°	59386.0	45847.6	35107.8	30671.7	28949.9
20°	59515.0	43206.1	31855.0	27284.3	25865.4
22.5°	59638.4	40418.8	28680.7	24654.0	23683.7
25°	59649.6	37345.5	25685.9	22797.6	22074.2
27.5°	59503.8	34160.0	23257.5	21244.1	20795.5
30°	59251.4	31069.8	21373.1	20122.5	19802.8
32.5°	58623.3	27918.0	19915.0	19040.1	18855.0
35°	57512.9	24827.8	18641.9	18058.6	18053.0
37.5°	55763.1	22085.4	17262.3	17161.3	17284.7
40°	53177.7	19685.0	15955.5	16224.7	16224.7
42.5°	49728.6	17598.8	14772.2	15047.0	14974.1
45°	45466.3	15725.6	13510.3	13835.6	14071.2
47.5°	40525.4	14076.8	12220.4	12848.6	13173.8
50°	35152.7	12506.5	11042.7	11844.7	12214.8
52.5°	29522.0	11053.9	9893.0	10812.8	11110.0
55°	24070.7	9747.2	8816.2	9562.1	9904.2
57.5°	19135.4	8502.1	7761.9	8468.5	9175.1
60°	14890.0	7431.0	6769.2	7778.7	8485.3
62.5°	11373.6	6477.6	5838.2	7133.7	7840.4
65°	8608.7	5653.1	5103.5	6539.2	7268.3
67.5°	6488.8	4940.9	4531.5	6107.4	6819.7
70°	4873.6	4251.1	4071.6	5838.2	6477.6
72.5°	3600.5	3617.3	3707.1	5602.7	6090.6
75°	2658.3	3045.3	3426.7	5322.3	5641.9
77.5°	1901.2	2523.7	3174.3	4985.8	5097.9
80°	1317.9	2058.2	2910.7	4542.7	4447.4
82.5°	824.4	1648.8	2675.1	4054.8	3791.2
85°	465.5	1261.9	2506.9	3488.3	3202.3
87.5°	207.5	942.2	2192.8	2720.0	2540.5
90°	0.0	527.2	1452.5	2047.0	2063.8
92.5°	11.2	437.4	1340.4	1873.2	1929.2
95°	22.4	370.1	1278.7	1738.6	1817.1
97.5°	28.0	325.3	1200.2	1615.2	1682.5
100°	33.6	291.6	1104.8	1486.2	1542.3
102.5°	39.3	269.2	1015.1	1351.6	1396.5
105°	44.9	246.8	931.0	1233.8	1267.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	56.1	190.7	701.0	886.1	914.1
115°	61.7	173.9	628.1	785.2	802.0
117.5°	67.3	151.4	549.6	689.8	695.4
120°	67.3	134.6	471.1	588.9	588.9
122.5°	67.3	112.2	392.6	487.9	482.3
125°	67.3	89.7	319.7	403.8	398.2
127.5°	61.7	72.9	258.0	336.5	330.9
130°	61.7	72.9	207.5	286.0	286.0
132.5°	56.1	67.3	168.2	246.8	246.8
135°	56.1	67.3	140.2	218.7	218.7
137.5°	56.1	72.9	117.8	190.7	190.7
140°	56.1	67.3	100.9	168.2	168.2
142.5°	61.7	67.3	89.7	145.8	145.8
145°	67.3	72.9	84.1	129.0	123.4
147.5°	67.3	78.5	84.1	112.2	106.6
150°	67.3	84.1	84.1	100.9	95.3
152.5°	67.3	84.1	84.1	95.3	89.7
155°	67.3	84.1	89.7	95.3	84.1
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	44.9	229.9	852.5	1104.8	1144.1
110°	50.5	207.5	779.6	987.1	1026.3



(END OF REPORT)