

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: P830835

Luminaire Tested: **OHBL-90SE-MFL-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-90SE-MFL-UNV-L730-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

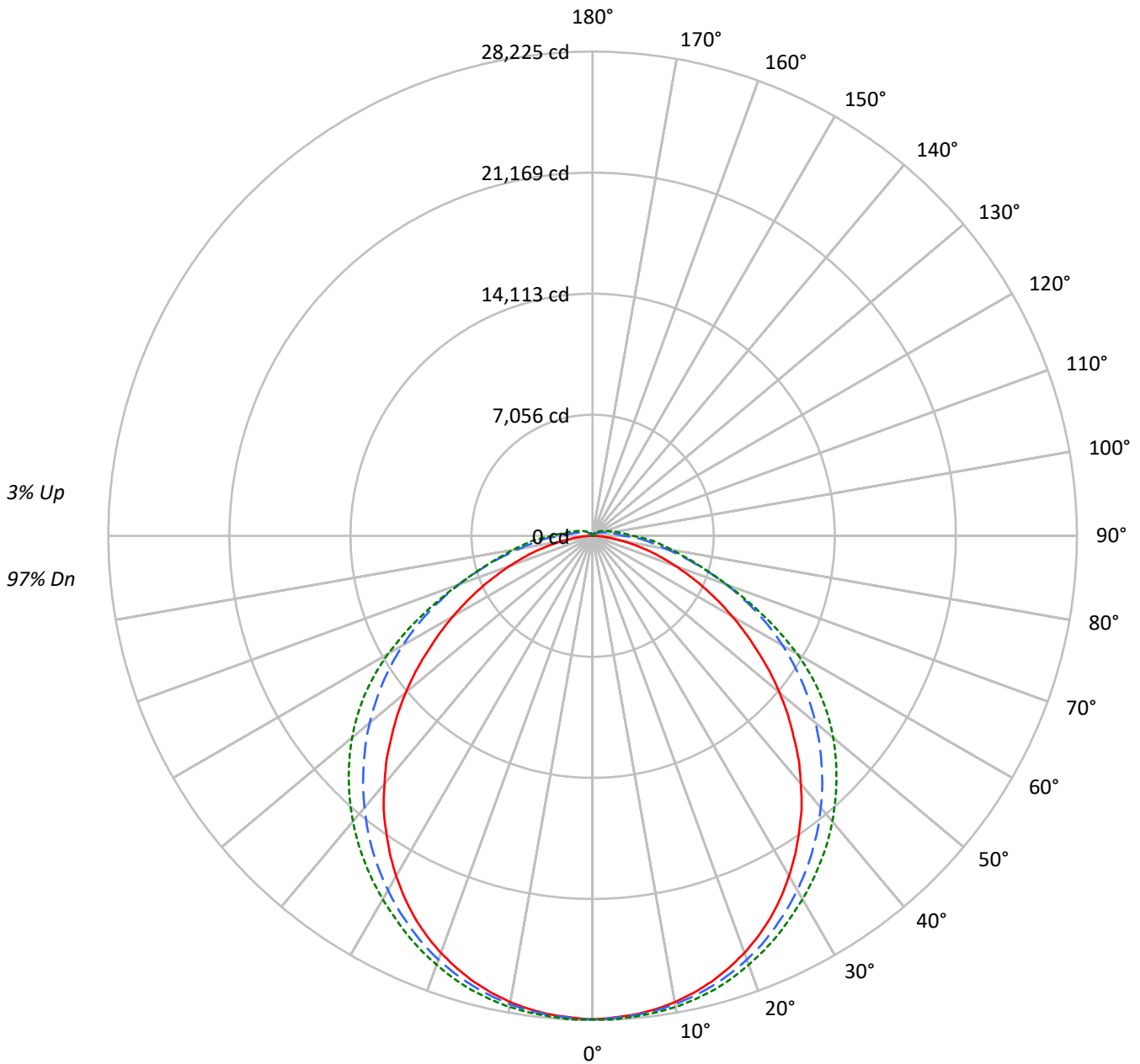
Lumens per Lamp: N/A
Luminaire Lumens: 84389.0 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P830835

CATALOG NUMBER: OHBL-90SE-MFL-UNV-L730-CD

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	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	44593	44593	44593
5°	44307	44171	44306
10°	43997	43781	44074
15°	43505	43315	43769
20°	42853	42746	43323
25°	41982	42034	42872
30°	40775	41262	42418
35°	39315	40443	42027
40°	37561	39494	41641
45°	35493	38464	41149
50°	33230	37422	40551
55°	30448	36147	39541
60°	27599	34646	37526
65°	24490	32727	34213
70°	21119	30281	30626
75°	17706	27456	28203
80°	13424	25413	27979
85°	8493	26414	31266



TEST NUMBER: P830835

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2671.8	3.2
10°-20°	7665.1	9.1
20°-30°	11592.1	13.7
30°-40°	13916.4	16.5
40°-50°	14373.4	17.0
50°-60°	12931.5	15.3
60°-70°	9741.1	11.5
70°-80°	5882.0	7.0
80°-90°	2876.8	3.4
90°-100°	1210.9	1.4
100°-110°	691.2	0.8
110°-120°	405.8	0.5
120°-130°	229.5	0.3
130°-140°	120.8	0.1
140°-150°	58.7	0.1
150°-160°	21.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	21929.0	26.0
0°-40°	35845.4	42.5
0°-60°	63150.3	74.8
0°-90°	81650.2	96.8
90°-120°	2307.9	2.7
90°-150°	2716.9	3.2
90°-180°	2739.0	3.2
0°-180°	84389.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28197	28197	28197	28197	28197	
5°	28018	28094	28059	28169	28135	###
15°	26886	27017	27141	27369	27396	7580
25°	24553	24822	25174	25568	25630	11294
35°	20992	21482	22366	23042	23180	13123
45°	16569	17404	18860	19888	20102	12792
55°	11738	12953	14920	16045	16238	10524
65°	7163	8626	10558	11083	10959	7117
75°	3374	4844	6114	6273	6211	3600
85°	704	1856	3064	3485	3547	813
90°	0	725	1753	2208	2298	44
95°	34	490	1311	1670	1732	29
105°	48	283	759	994	1035	48
115°	55	159	469	628	656	56
125°	55	76	283	407	428	50
135°	48	62	145	248	276	38
145°	69	62	69	124	145	41
155°	69	76	69	62	69	21
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830835

CATALOG NUMBER: OHBL-90SE-MFL-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28197.1	28197.1	28197.1	28197.1	28197.1
2.5°	28114.2	28183.2	28141.8	28231.6	28224.7
5°	28017.6	28093.5	28059.0	28169.4	28134.9
7.5°	27852.0	27934.8	27927.9	28052.1	28038.3
10°	27610.5	27700.2	27727.8	27893.4	27893.4
12.5°	27279.2	27396.5	27465.6	27665.7	27672.6
15°	26885.9	27017.0	27141.2	27368.9	27396.5
17.5°	26409.7	26575.3	26747.9	27010.1	27044.6
20°	25871.4	26057.8	26292.4	26568.4	26609.8
22.5°	25250.4	25471.2	25774.8	26099.2	26147.5
25°	24553.4	24822.5	25174.5	25567.8	25629.9
27.5°	23759.8	24070.3	24546.5	24988.1	25043.3
30°	22897.2	23262.9	23856.4	24380.9	24470.6
32.5°	21986.2	22407.2	23138.7	23725.3	23849.5
35°	20992.5	21482.5	22365.8	23042.1	23180.1
37.5°	20012.6	20550.9	21551.5	22324.4	22490.0
40°	18867.0	19536.4	20682.0	21537.7	21737.8
42.5°	17790.5	18515.1	19812.5	20744.1	20937.3
45°	16569.0	17404.1	18860.1	19888.4	20102.3
47.5°	15423.5	16327.5	17942.3	19005.1	19225.9
50°	14215.8	15209.6	16962.4	18073.4	18301.2
52.5°	13008.2	14077.8	15948.0	17100.4	17314.3
55°	11738.4	12953.0	14919.7	16044.6	16237.8
57.5°	10558.4	11841.9	13863.9	14933.5	15050.8
60°	9392.1	10724.0	12787.4	13725.9	13767.3
62.5°	8253.5	9654.3	11683.2	12428.5	12373.3
65°	7163.1	8626.1	10558.4	11082.8	10958.6
67.5°	6114.2	7625.5	9405.9	9744.1	9578.4
70°	5120.5	6652.5	8288.0	8460.5	8308.7
72.5°	4244.0	5727.7	7156.2	7301.1	7190.7
75°	3374.5	4844.4	6114.2	6272.9	6210.8
77.5°	2560.2	3988.7	5155.0	5362.0	5375.8
80°	1842.5	3208.9	4320.0	4644.3	4685.7
82.5°	1214.6	2491.2	3623.0	4037.0	4099.1
85°	703.9	1856.3	3064.0	3485.0	3547.1
87.5°	303.6	1338.8	2463.6	2843.2	2919.1
90°	0.0	724.6	1752.8	2208.3	2298.0
92.5°	20.7	600.4	1504.4	1918.4	1994.4
95°	34.5	490.0	1311.2	1670.0	1732.1
97.5°	41.4	414.1	1138.6	1456.1	1518.2
100°	41.4	358.8	986.8	1276.7	1331.9
102.5°	41.4	317.4	862.6	1117.9	1166.3
105°	48.3	282.9	759.1	993.7	1035.1



TEST NUMBER: P830835

CATALOG NUMBER: OHBL-90SE-MFL-UNV-L730-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.2	186.3	524.5	703.9	731.5
115°	55.2	158.7	469.3	628.0	655.6
117.5°	62.1	138.0	414.1	565.9	586.6
120°	62.1	117.3	365.7	503.8	531.4
122.5°	62.1	96.6	324.3	455.5	476.2
125°	55.2	75.9	282.9	407.2	427.9
127.5°	48.3	62.1	241.5	365.7	386.5
130°	48.3	55.2	207.0	324.3	345.0
132.5°	48.3	62.1	172.5	282.9	310.5
135°	48.3	62.1	144.9	248.4	276.0
137.5°	48.3	62.1	117.3	213.9	241.5
140°	55.2	62.1	96.6	179.4	207.0
142.5°	62.1	62.1	75.9	151.8	172.5
145°	69.0	62.1	69.0	124.2	144.9
147.5°	69.0	69.0	69.0	96.6	117.3
150°	69.0	75.9	69.0	75.9	96.6
152.5°	69.0	75.9	69.0	62.1	75.9
155°	69.0	75.9	69.0	62.1	69.0
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°	48.3	248.4	669.4	883.3	917.8
110°	48.3	220.8	593.5	786.7	821.2



(END OF REPORT)