

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: P830148

Luminaire Tested: **OHBL-24SE-NL-UNV-L935-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-NL-UNV-L935-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

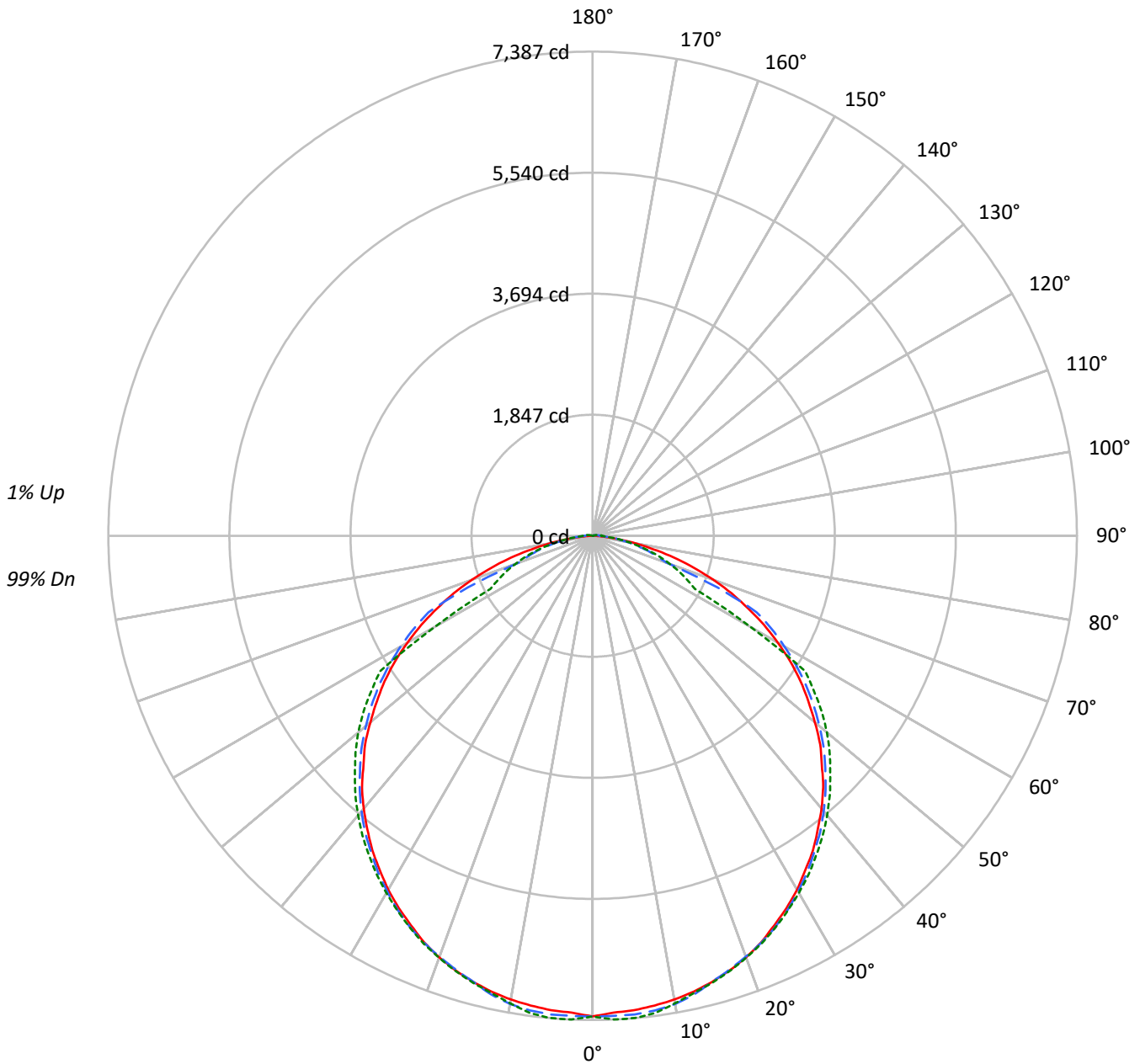
Lumens per Lamp: N/A
Luminaire Lumens: 20589.0 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 138
Input Voltage (V): NR
Input Current (Ain): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12525	12525	12525
5°	12456	12569	12663
10°	12459	12578	12562
15°	12457	12455	12482
20°	12440	12422	12452
25°	12355	12418	12428
30°	12298	12361	12410
35°	12218	12285	12401
40°	12113	12228	12408
45°	11938	12118	12383
50°	11758	11998	12394
55°	11533	11832	12258
60°	11147	11543	9543
65°	10546	11160	6423
70°	9754	5924	6233
75°	8508	5630	5952
80°	6543	5164	5455
85°	3302	5219	5344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.7	3.4
10°-20°	1994.8	9.7
20°-30°	3035.3	14.7
30°-40°	3690.5	17.9
40°-50°	3880.3	18.8
50°-60°	3543.2	17.2
60°-70°	2271.4	11.0
70°-80°	1073.0	5.2
80°-90°	297.5	1.4
90°-100°	78.8	0.4
100°-110°	21.6	0.1
110°-120°	6.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5726.8	27.8
0°-40°	9417.2	45.7
0°-60°	16840.8	81.8
0°-90°	20482.6	99.5
90°-120°	106.4	0.5
90°-150°	106.4	0.5
90°-180°	106.0	0.5
0°-180°	20589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7333	7333	7333	7333	7333	
5°	7265	7293	7331	7371	7386	691
15°	7045	7098	7044	7054	7059	1989
25°	6556	6566	6589	6600	6595	3025
35°	5860	5825	5892	5964	5947	3662
45°	4942	4933	5017	5135	5126	3820
55°	3873	3844	3974	4106	4116	3454
65°	2610	2610	2761	1584	1589	2587
75°	1289	1314	853	898	902	1359
85°	168	214	266	288	273	249
90°	0	72	118	140	138	7
95°	4	37	85	115	115	2
105°	6	14	21	21	19	6
115°	6	9	13	9	1	5
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7333.3	7333.3	7333.3	7333.3	7333.3
2.5°	7281.8	7306.3	7333.3	7368.0	7387.2
5°	7265.0	7293.4	7330.7	7370.6	7386.0
7.5°	7229.1	7268.8	7304.9	7333.3	7342.3
10°	7184.0	7231.6	7252.2	7249.6	7243.2
12.5°	7123.5	7173.7	7167.3	7137.6	7142.8
15°	7045.0	7097.7	7043.8	7054.0	7059.2
17.5°	6952.4	7003.9	6940.8	6961.4	6962.7
20°	6844.3	6882.9	6834.0	6850.7	6850.7
22.5°	6714.4	6741.3	6720.8	6732.3	6734.9
25°	6556.1	6566.3	6589.4	6599.8	6594.6
27.5°	6404.3	6391.4	6436.5	6460.8	6447.9
30°	6235.6	6215.1	6267.8	6307.7	6292.3
32.5°	6042.6	6029.8	6090.3	6137.8	6128.8
35°	5859.9	5825.2	5892.1	5964.1	5947.4
37.5°	5643.7	5623.1	5699.0	5775.0	5766.1
40°	5432.7	5397.9	5484.2	5574.2	5565.2
42.5°	5206.3	5165.0	5259.0	5367.2	5356.8
45°	4942.4	4933.4	5017.0	5135.4	5126.4
47.5°	4708.3	4663.2	4780.3	4894.8	4905.2
50°	4425.1	4408.5	4515.3	4654.3	4664.5
52.5°	4148.6	4137.0	4248.8	4389.1	4407.1
55°	3873.1	3843.5	3973.5	4106.1	4116.4
57.5°	3578.6	3547.6	3680.2	3824.3	3846.1
60°	3263.2	3233.6	3379.0	3512.9	2793.6
62.5°	2947.9	2927.4	3079.3	2181.1	1757.8
65°	2609.5	2609.5	2761.3	1584.0	1589.2
67.5°	2293.1	2272.5	2058.9	1423.1	1423.1
70°	1953.3	1961.1	1186.3	1246.9	1248.2
72.5°	1612.3	1640.7	1024.3	1073.1	1075.7
75°	1289.3	1313.8	853.1	898.2	902.0
77.5°	947.1	728.3	685.8	720.7	721.9
80°	665.2	459.4	525.0	558.4	554.6
82.5°	388.5	321.6	384.7	409.2	407.9
85°	168.5	213.6	266.3	288.3	272.7
87.5°	53.9	132.6	165.9	178.9	177.5
90°	0.0	72.1	118.4	140.2	137.7
92.5°	0.0	56.5	103.0	128.7	130.0
95°	3.8	37.3	85.0	114.6	114.6
97.5°	2.6	27.0	60.5	90.0	92.6
100°	2.6	21.8	39.9	64.3	65.7
102.5°	6.4	18.0	24.4	41.1	42.5
105°	6.4	14.2	20.6	20.6	19.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.8	10.4	14.2	10.4	1.2
115°	6.4	9.0	12.8	9.0	1.2
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	6.4	12.8	18.0	11.6	3.8
110°	7.8	11.6	15.4	10.4	1.2



(END OF REPORT)