

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: P827172

Luminaire Tested: **OHBL-30HE-NL-UNV-L840-CD-UPL30**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827172
REPORT IS A COMBINATION OF REPORTS P826279 AND G3-2310-221-4
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-30HE-NL-UNV-L840-CD-UPL30
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 3000 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

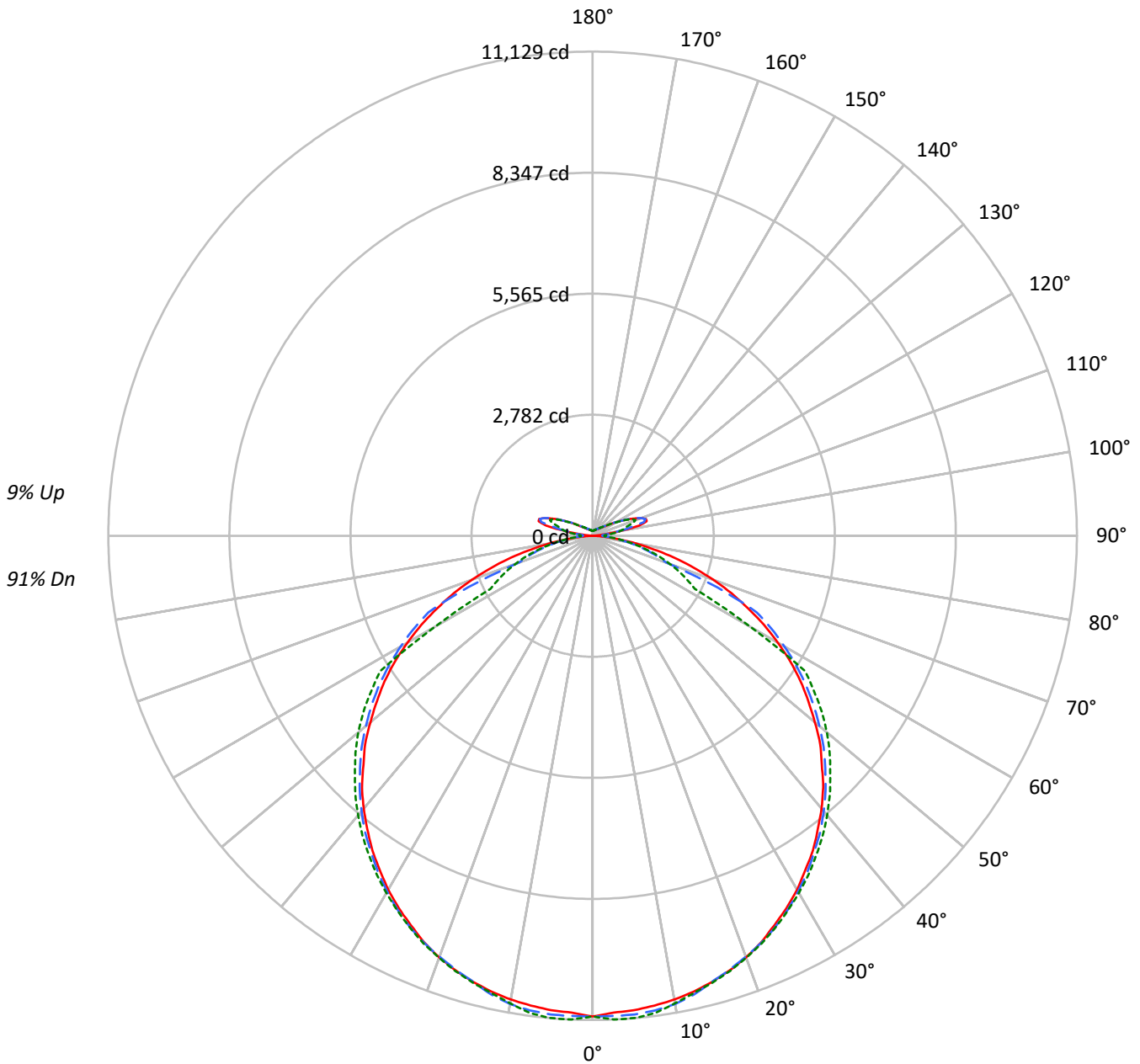
Lumens per Lamp: N/A
Luminaire Lumens: 34081.9 lumens
Efficiency: N/A
Efficacy: 182.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 187
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	50	30	10	0		
RCR																										
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91								
1	107	103	99	95	103	99	96	92	93	91	88	88	86	83	83	81	79	77								
2	98	90	83	78	94	87	81	76	82	77	73	77	73	70	73	70	67	64								
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	65	61	57	54								
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47								
5	75	62	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	40								
6	69	56	47	41	67	55	47	41	52	45	40	49	43	38	47	42	37	35								
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	31								
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	28								
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	36	31	27	25								
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17472	17472	17472
5°	17292	17445	17624
10°	17212	17368	17443
15°	17123	17109	17290
20°	17010	16970	17205
25°	16800	16867	17126
30°	16622	16685	17051
35°	16406	16469	16984
40°	16145	16266	16934
45°	15777	15979	16829
50°	15384	15655	16762
55°	14906	15243	16477
60°	14185	14632	12729
65°	13146	13846	8478
70°	11805	7129	8106
75°	9831	6456	7557
80°	6941	5421	6618
85°	2818	4379	5725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.6	3.1
10°-20°	3005.3	8.8
20°-30°	4572.9	13.4
30°-40°	5560.0	16.3
40°-50°	5846.1	17.2
50°-60°	5338.1	15.7
60°-70°	3422.0	10.0
70°-80°	1616.5	4.7
80°-90°	454.8	1.3
90°-100°	355.4	1.0
100°-110°	1102.7	3.2
110°-120°	890.1	2.6
120°-130°	415.8	1.2
130°-140°	209.6	0.6
140°-150°	122.5	0.4
150°-160°	71.8	0.2
160°-170°	37.3	0.1
170°-180°	11.4	0.0
0°-30°	8627.8	25.3
0°-40°	14187.8	41.6
0°-60°	25372.0	74.4
0°-90°	30865.3	90.6
90°-120°	2348.2	6.9
90°-150°	3096.1	9.1
90°-180°	3217.0	9.4
0°-180°	34081.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11048	11048	11048	11048	11048	
5°	10945	10988	11044	11104	11128	###
15°	10614	10693	10612	10627	10635	2996
25°	9877	9893	9928	9943	9935	4558
35°	8828	8776	8877	8986	8960	5517
45°	7446	7433	7559	7737	7723	5755
55°	5835	5791	5986	6186	6202	5204
65°	3932	3932	4160	2386	2394	3898
75°	1942	1979	1285	1353	1359	2048
85°	254	322	401	434	411	375
90°	7	150	232	272	268	16
95°	63	171	268	350	363	209
105°	1287	1308	1219	923	814	1216
115°	892	896	900	898	869	891
125°	434	447	459	447	441	406
135°	255	260	266	271	271	201
145°	186	189	194	196	196	118
155°	149	152	154	156	156	70
165°	128	129	130	132	132	37
175°	116	117	117	118	118	11
180°	115	115	115	115	115	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11048.2	11048.2	11048.2	11048.2	<i>11048.2</i>
2.5°	<i>10970.6</i>	<i>11007.5</i>	<i>11048.2</i>	<i>11100.5</i>	<i>11129.4</i>
5°	10945.3	10988.0	11044.3	11104.4	<i>11127.6</i>
7.5°	10891.2	10951.1	11005.5	11048.2	<i>11061.7</i>
10°	10823.2	10895.1	10926.0	10922.1	<i>10912.5</i>
12.5°	10732.1	10807.8	10798.2	10753.4	<i>10761.2</i>
15°	10613.9	10693.3	10612.0	10627.4	<i>10635.2</i>
17.5°	10474.3	10551.9	10456.9	10487.8	<i>10489.9</i>
20°	10311.5	10369.6	10295.9	10321.2	<i>10321.2</i>
22.5°	10115.7	10156.4	10125.4	10142.8	<i>10146.7</i>
25°	9877.2	9892.6	9927.5	9943.1	<i>9935.3</i>
27.5°	9648.6	9629.1	9697.0	9733.8	<i>9714.3</i>
30°	9394.5	9363.5	9442.9	9503.1	<i>9479.9</i>
32.5°	9103.7	9084.4	9175.5	9247.1	<i>9233.6</i>
35°	8828.4	8776.1	8876.9	8985.5	<i>8960.2</i>
37.5°	8502.7	8471.7	8586.0	8700.6	<i>8687.0</i>
40°	8184.8	8132.4	8262.4	8398.0	<i>8384.5</i>
42.5°	7843.7	7781.5	7923.1	8086.1	<i>8070.5</i>
45°	7446.1	7432.6	7558.6	7736.9	<i>7723.4</i>
47.5°	7093.5	7025.6	7201.9	7374.5	<i>7390.1</i>
50°	6666.8	6641.8	6802.7	7012.0	<i>7027.4</i>
52.5°	6250.1	6232.7	6401.2	6612.6	<i>6639.7</i>
55°	5835.1	5790.6	5986.4	6186.1	<i>6201.7</i>
57.5°	5391.4	5344.8	5544.5	5761.7	<i>5794.5</i>
60°	4916.2	4871.7	5090.7	5292.5	<i>4208.8</i>
62.5°	4441.3	4410.3	4639.2	3286.0	<i>2648.3</i>
65°	3931.5	3931.5	4160.1	2386.4	<i>2394.2</i>
67.5°	3454.7	3423.7	3101.9	2144.0	<i>2144.0</i>
70°	2942.8	2954.5	1787.3	1878.6	<i>1880.5</i>
72.5°	2429.1	2471.8	1543.2	1616.7	<i>1620.6</i>
75°	1942.4	1979.4	1285.2	1353.2	<i>1358.9</i>
77.5°	1426.9	1097.2	1033.2	1085.7	<i>1087.6</i>
80°	1002.2	692.1	791.0	841.3	<i>835.6</i>
82.5°	585.4	484.6	579.6	616.6	<i>614.5</i>
85°	253.9	321.8	401.3	434.3	<i>410.9</i>
87.5°	81.3	199.7	250.0	269.5	<i>267.4</i>
90°	7.0	149.6	232.4	272.2	<i>268.5</i>
92.5°	21.0	136.2	221.2	275.0	<i>278.8</i>
95°	62.7	171.2	268.1	349.6	<i>362.6</i>
97.5°	351.9	386.6	391.1	484.7	<i>527.6</i>
100°	690.9	758.8	601.1	646.9	<i>653.9</i>
102.5°	1093.6	1131.1	898.7	776.0	<i>748.0</i>
105°	1286.6	1308.3	1219.0	923.0	<i>814.1</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1035.7	1047.6	1054.3	1035.6	997.8
115°	891.6	895.5	900.3	898.5	868.8
117.5°	744.0	749.0	751.0	743.0	735.0
120°	626.0	635.0	633.0	627.0	619.0
122.5°	523.0	538.0	543.0	532.0	523.0
125°	434.0	447.0	459.0	447.0	441.0
127.5°	368.0	377.0	386.0	385.0	380.0
130°	317.0	325.0	335.0	337.0	336.0
132.5°	282.0	289.0	296.0	299.0	298.0
135°	255.0	260.0	266.0	271.0	271.0
137.5°	231.0	238.0	243.0	247.0	247.0
140°	214.0	219.0	224.0	226.0	227.0
142.5°	199.0	203.0	208.0	210.0	211.0
145°	186.0	189.0	194.0	196.0	196.0
147.5°	174.0	178.0	182.0	184.0	184.0
150°	165.0	168.0	172.0	173.0	174.0
152.5°	157.0	159.0	162.0	164.0	164.0
155°	149.0	152.0	154.0	156.0	156.0
157.5°	143.0	145.0	147.0	148.0	149.0
160°	138.0	139.0	141.0	142.0	143.0
162.5°	132.0	134.0	135.0	136.0	137.0
165°	128.0	129.0	130.0	132.0	132.0
167.5°	124.0	125.0	126.0	127.0	127.0
170°	121.0	122.0	123.0	123.0	123.0
172.5°	118.0	119.0	120.0	120.0	120.0
175°	116.0	117.0	117.0	118.0	118.0
177.5°	115.0	116.0	116.0	116.0	117.0
180°	115.0	115.0	115.0	115.0	115.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1285.6	1313.3	1274.1	1109.4	957.7
110°	1181.7	1208.4	1189.2	1130.6	1046.8



(END OF REPORT)