

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: P827093

Luminaire Tested: **OHBL-18HE-A-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827093
REPORT IS A COMBINATION OF REPORTS P826227 AND G3-2310-221-6
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-A-UNV-L840-CD-UPL24
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

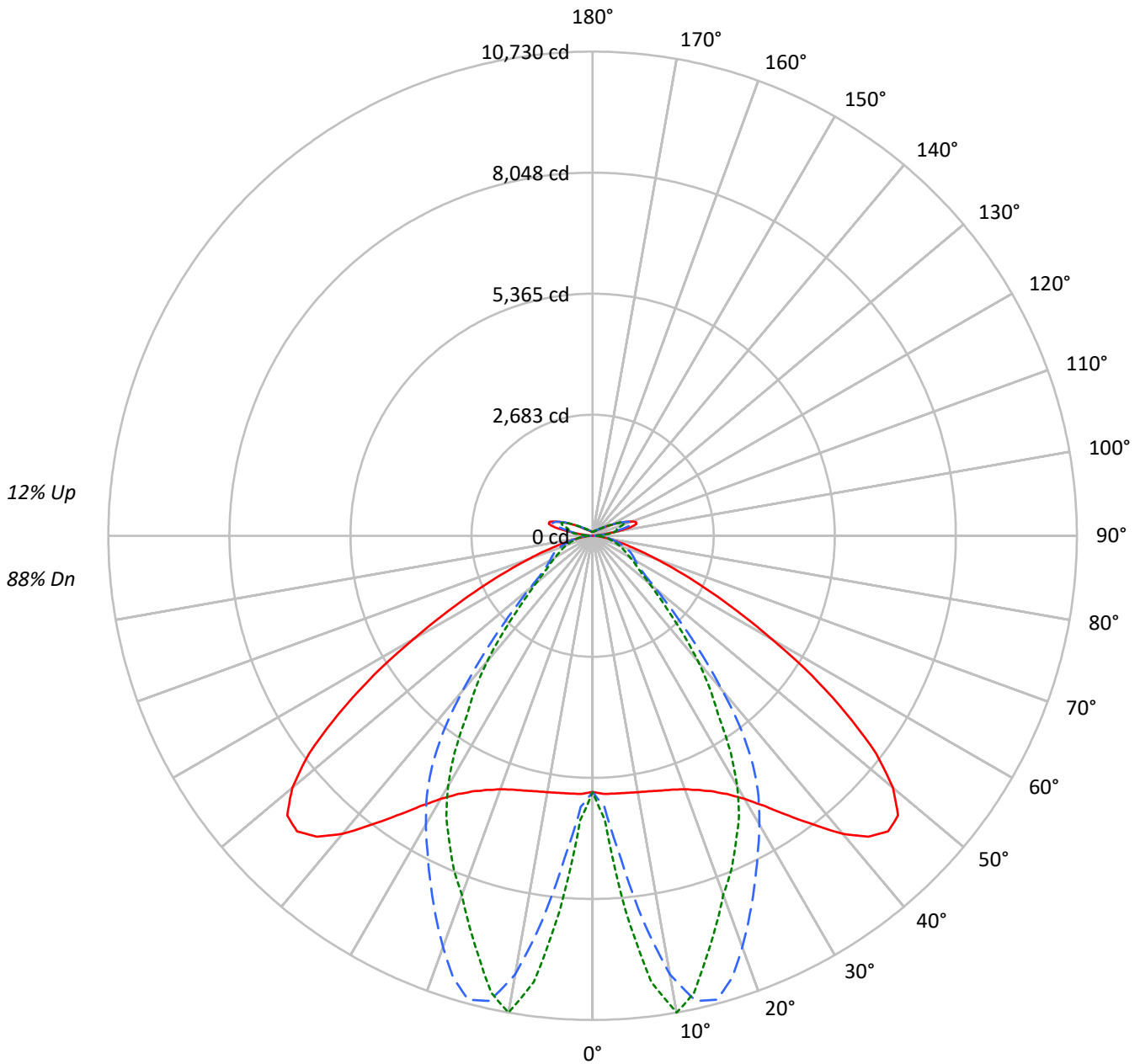
Lumens per Lamp: N/A
Luminaire Lumens: 20640.3 lumens
Efficiency: N/A
Efficacy: 171.4 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 120.4
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88			88
1	108	104	100	97	104	100	97	94	94	92	89	88	86	85	83	81	80	77			77
2	100	93	87	82	96	90	85	80	85	80	77	80	76	73	75	72	70	67			67
3	92	83	76	71	89	81	74	69	76	71	67	72	68	64	68	65	62	59			59
4	85	75	67	61	82	73	66	60	69	63	58	65	60	56	62	58	55	52			52
5	79	68	60	54	76	66	59	53	63	56	52	60	54	50	57	52	49	46			46
6	73	62	54	48	71	60	53	47	57	51	46	55	49	45	52	47	44	42			42
7	68	56	49	43	66	55	48	43	53	46	42	50	45	40	48	43	39	37			37
8	64	52	44	39	62	51	43	38	48	42	38	46	41	37	44	40	36	34			34
9	60	48	40	35	58	47	40	35	45	39	34	43	37	33	41	36	33	31			31
10	56	44	37	32	55	43	37	32	42	36	31	40	35	31	39	34	30	28			28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9698	9698	9698
5°	9747	12197	14216
10°	9834	16816	18465
15°	10068	18319	16947
20°	10485	16997	15146
25°	11249	15286	13854
30°	12544	13764	12319
35°	14746	12047	9817
40°	17731	9174	7813
45°	20339	6250	5561
50°	20620	4287	4113
55°	17848	3374	3360
60°	13332	3157	3023
65°	9138	3167	2863
70°	5843	3055	2773
75°	3514	2827	2653
80°	2067	2485	2737
85°	995	2134	2538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.2	3.6
10°-20°	2616.2	12.7
20°-30°	3855.2	18.7
30°-40°	4051.2	19.6
40°-50°	3099.9	15.0
50°-60°	1871.8	9.1
60°-70°	1142.2	5.5
70°-80°	623.5	3.0
80°-90°	225.0	1.1
90°-100°	231.8	1.1
100°-110°	804.9	3.9
110°-120°	690.5	3.3
120°-130°	331.2	1.6
130°-140°	165.7	0.8
140°-150°	96.1	0.5
150°-160°	56.0	0.3
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	7212.6	34.9
0°-40°	11263.8	54.6
0°-60°	16235.5	78.7
0°-90°	18226.2	88.3
90°-120°	1727.2	8.4
90°-150°	2320.3	11.2
90°-180°	2414.0	11.7
0°-180°	20640.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5678	5678	5678	5678	5678	
5°	5735	6153	7177	8014	8324	548
15°	5847	9106	10643	9931	9698	1662
25°	6248	10568	8497	7692	7502	2920
35°	7568	8463	6190	5155	4853	4801
45°	9262	4829	2851	2509	2404	6998
55°	6850	1638	1298	1203	1199	6053
65°	2746	1037	955	817	776	2814
75°	731	645	591	488	468	841
85°	109	200	236	215	195	134
90°	5	34	47	62	69	10
95°	53	111	172	228	258	165
105°	1003	992	844	601	552	952
115°	692	699	699	697	691	698
125°	338	356	363	362	359	317
135°	200	204	211	213	215	158
145°	145	149	152	153	154	92
155°	116	118	120	121	121	54
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5677.8	5677.8	5677.8	5677.8	5677.8
2.5°	5724.4	5782.8	6013.1	6252.2	6310.4
5°	5734.8	6152.6	7177.4	8014.2	8323.5
7.5°	5747.0	6751.8	8620.0	9644.5	9972.5
10°	5770.1	7509.5	9870.0	10605.5	10729.5
12.5°	5798.9	8312.3	10557.8	10531.0	10374.7
15°	5846.6	9106.2	10642.6	9931.1	9697.6
17.5°	5896.7	9778.0	10273.0	9278.1	9074.8
20°	5978.3	10276.6	9698.1	8697.7	8466.6
22.5°	6095.9	10550.8	9095.3	8172.7	8022.0
25°	6247.6	10568.5	8496.6	7692.4	7502.5
27.5°	6450.9	10323.4	7922.7	7221.7	7021.1
30°	6727.5	9853.9	7389.5	6654.2	6405.4
32.5°	7103.2	9178.3	6839.7	5969.0	5690.0
35°	7567.7	8463.4	6189.9	5154.9	4853.4
37.5°	8074.6	7669.7	5401.3	4433.9	4258.4
40°	8620.0	6851.9	4466.6	3759.3	3633.6
42.5°	9045.6	5962.7	3598.3	3124.0	2990.4
45°	9262.5	4829.3	2851.3	2509.0	2403.6
47.5°	9178.0	3748.8	2260.4	1993.6	1961.9
50°	8685.0	2768.1	1809.5	1642.2	1629.1
52.5°	7914.2	2063.2	1494.7	1391.2	1368.6
55°	6849.9	1637.6	1298.0	1203.0	1199.4
57.5°	5751.1	1391.2	1178.2	1104.6	1079.1
60°	4579.0	1240.5	1087.4	1004.3	952.5
62.5°	3589.3	1135.1	1020.6	907.9	859.5
65°	2746.2	1036.7	954.9	817.1	775.5
67.5°	2047.1	943.0	874.6	721.7	697.3
70°	1491.5	846.8	783.0	641.8	622.6
72.5°	1063.0	750.9	691.5	566.8	545.6
75°	731.2	644.7	591.4	487.9	468.2
77.5°	493.3	536.4	492.8	416.6	408.3
80°	329.4	425.4	398.6	353.0	347.9
82.5°	199.9	308.7	314.6	287.1	273.2
85°	108.8	199.9	235.7	214.7	194.8
87.5°	42.6	110.8	162.4	145.8	137.3
90°	5.0	34.0	47.0	62.0	69.0
92.5°	17.0	45.0	72.0	102.0	115.0
95°	53.0	111.0	172.0	228.0	258.0
97.5°	269.0	291.0	313.0	379.0	412.0
100°	552.0	586.0	473.0	500.0	509.0
102.5°	853.0	848.0	618.0	554.0	546.0
105°	1003.0	992.0	844.0	601.0	552.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	808.0	820.0	804.0	781.0	749.0
115°	692.0	699.0	699.0	697.0	691.0
117.5°	592.0	593.0	597.0	596.0	597.0
120°	490.0	501.0	510.0	505.0	499.0
122.5°	411.0	423.0	429.0	427.0	421.0
125°	338.0	356.0	363.0	362.0	359.0
127.5°	286.0	299.0	309.0	310.0	309.0
130°	249.0	257.0	267.0	268.0	269.0
132.5°	221.0	228.0	235.0	239.0	238.0
135°	200.0	204.0	211.0	213.0	215.0
137.5°	183.0	186.0	192.0	195.0	195.0
140°	168.0	172.0	177.0	179.0	180.0
142.5°	155.0	159.0	163.0	165.0	165.0
145°	145.0	149.0	152.0	153.0	154.0
147.5°	136.0	140.0	142.0	144.0	144.0
150°	129.0	131.0	134.0	135.0	136.0
152.5°	122.0	124.0	127.0	128.0	128.0
155°	116.0	118.0	120.0	121.0	121.0
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1007.0	1011.0	933.0	729.0	607.0
110°	929.0	938.0	893.0	816.0	718.0



(END OF REPORT)