

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: P826352

Luminaire Tested: **OHB-18HE-MCL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826352
REPORT IS A COMBINATION OF REPORTS P826192 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: OHB-18HE-MCL-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

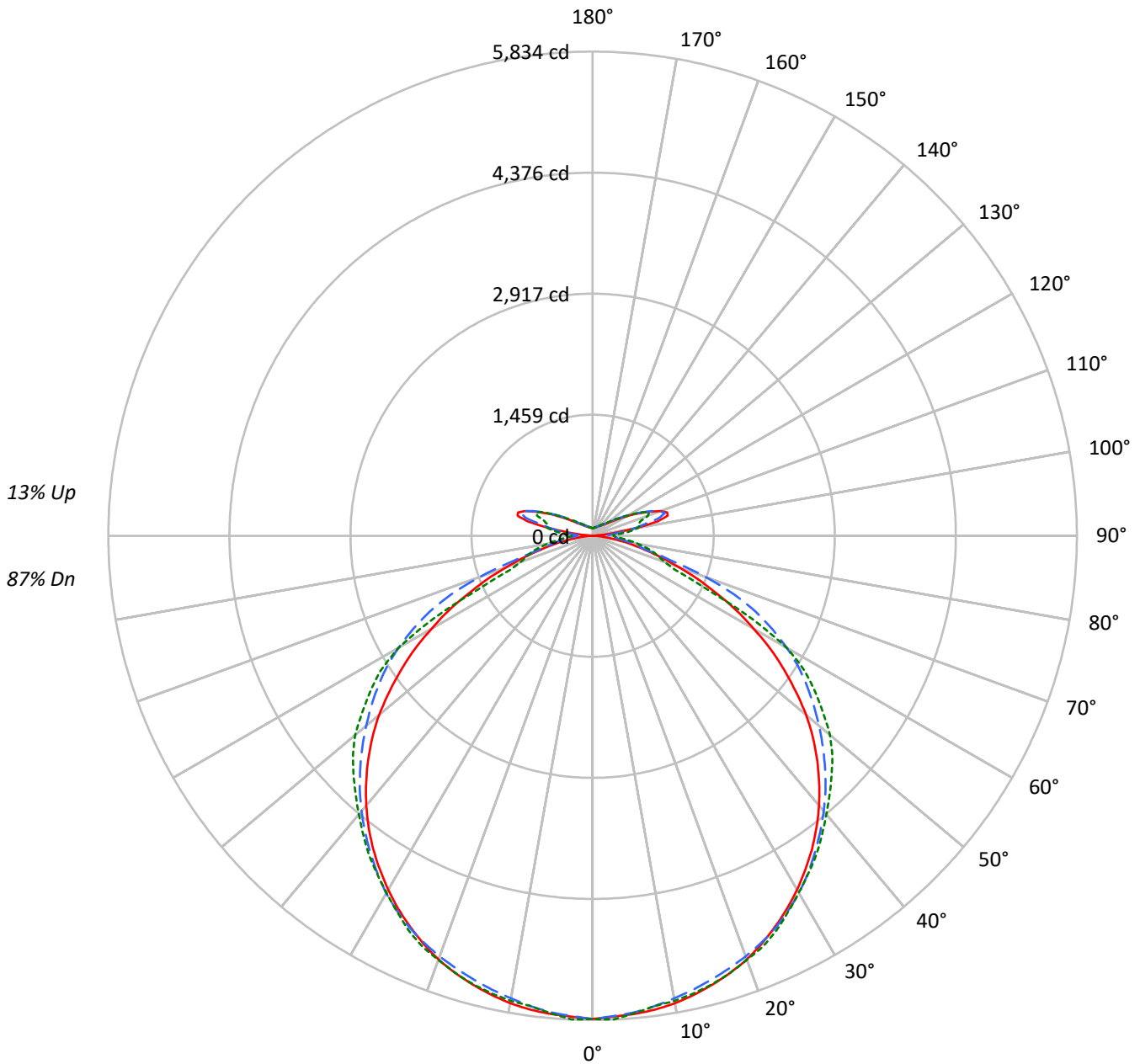
Lumens per Lamp: N/A
Luminaire Lumens: 18708.1 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 122.4
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				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	104	104	104	97	97	97	90	90	90	87			87
1	106	102	97	94	102	98	94	91	91	89	86	85	83	81	80	78	76	73			73
2	97	89	82	77	93	86	80	75	80	75	71	75	71	68	70	67	64	62			62
3	88	78	70	64	85	76	68	63	71	65	60	66	61	57	62	58	55	52			52
4	81	69	61	54	78	67	59	53	63	56	51	59	54	49	56	51	47	44			44
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41	38			38
6	68	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34			34
7	63	50	42	36	61	49	41	35	46	39	34	44	37	33	41	36	32	30			30
8	59	46	37	32	57	45	37	31	42	35	30	40	34	29	38	32	28	26			26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24			24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	21			21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19449	19449	19449
5°	19228	19108	19217
10°	19064	18762	19014
15°	18850	18490	18898
20°	18633	18297	18741
25°	18310	18101	18586
30°	17962	17826	18247
35°	17562	17423	18065
40°	17070	17005	17815
45°	16425	16527	17713
50°	15589	15988	17591
55°	14342	15446	16955
60°	12756	14687	15698
65°	10749	13366	9968
70°	8449	10300	7246
75°	6108	6002	7382
80°	3999	4848	7090
85°	2001	4212	6727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.0	2.9
10°-20°	1574.2	8.4
20°-30°	2404.3	12.9
30°-40°	2917.2	15.6
40°-50°	3057.5	16.3
50°-60°	2770.6	14.8
60°-70°	1857.6	9.9
70°-80°	834.1	4.5
80°-90°	308.4	1.6
90°-100°	306.9	1.6
100°-110°	792.0	4.2
110°-120°	664.1	3.5
120°-130°	320.1	1.7
130°-140°	162.4	0.9
140°-150°	94.9	0.5
150°-160°	56.2	0.3
160°-170°	29.6	0.2
170°-180°	9.1	0.0
0°-30°	4527.4	24.2
0°-40°	7444.7	39.8
0°-60°	13272.8	70.9
0°-90°	16272.9	87.0
90°-120°	1762.9	9.4
90°-150°	2340.3	12.5
90°-180°	2435.0	13.0
0°-180°	18708.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5822	5822	5822	5822	5822	
5°	5784	5804	5764	5782	5774	550
15°	5596	5575	5535	5584	5591	1580
25°	5199	5176	5213	5261	5245	2397
35°	4608	4619	4666	4716	4697	2880
45°	3824	3887	3959	4060	4073	2946
55°	2814	2950	3151	3277	3270	2512
65°	1652	1910	2169	1830	1494	1646
75°	650	943	694	710	756	710
85°	112	215	275	332	348	137
90°	6	103	186	236	251	10
95°	50	148	258	331	362	154
105°	937	942	833	617	574	890
115°	651	661	675	680	676	656
125°	320	338	353	354	353	301
135°	194	198	206	212	214	153
145°	142	147	150	152	153	91
155°	116	119	121	122	121	54
165°	102	103	104	104	104	29
175°	93	94	93	93	93	9
180°	92	92	92	92	92	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5822.1	5822.1	5822.1	5822.1	5822.1
2.5°	5798.6	5823.0	5792.7	5825.5	5833.9
5°	5784.2	5804.4	5764.0	5781.7	5774.1
7.5°	5758.2	5764.9	5716.9	5731.2	5716.0
10°	5719.4	5716.0	5659.6	5687.5	5690.8
12.5°	5662.2	5652.1	5601.6	5643.6	5644.5
15°	5596.5	5574.6	5535.0	5583.9	5590.6
17.5°	5520.7	5492.1	5466.0	5529.2	5519.0
20°	5432.4	5398.7	5393.6	5462.6	5437.4
22.5°	5323.0	5296.8	5308.6	5374.2	5358.2
25°	5199.2	5176.4	5212.6	5260.6	5245.4
27.5°	5068.6	5055.2	5096.5	5133.5	5104.0
30°	4925.6	4918.0	4972.7	5003.0	4966.0
32.5°	4769.8	4772.4	4824.6	4865.8	4831.3
35°	4608.2	4619.2	4666.3	4716.0	4697.4
37.5°	4430.6	4454.9	4502.1	4558.5	4539.2
40°	4242.9	4278.2	4330.4	4398.6	4380.9
42.5°	4040.0	4084.6	4152.0	4227.7	4226.0
45°	3824.5	3886.7	3959.1	4060.2	4072.8
47.5°	3600.5	3670.4	3762.1	3896.9	3916.2
50°	3357.3	3444.8	3559.3	3720.9	3732.7
52.5°	3086.2	3205.7	3357.3	3512.1	3497.9
55°	2814.3	2949.8	3151.0	3277.2	3269.7
57.5°	2543.2	2695.5	2939.7	3029.8	3029.0
60°	2240.1	2432.9	2699.7	2767.9	2700.6
62.5°	1959.8	2166.9	2443.8	2394.1	2163.5
65°	1651.6	1910.2	2168.6	1830.1	1494.3
67.5°	1378.1	1647.5	1841.9	1253.5	1073.3
70°	1102.8	1399.9	1436.1	930.2	917.6
72.5°	858.7	1175.2	990.9	796.4	836.8
75°	649.9	942.8	693.6	709.6	756.0
77.5°	473.9	724.0	539.6	622.1	660.0
80°	325.8	512.6	440.2	522.8	548.8
82.5°	204.5	338.4	352.8	420.9	447.9
85°	111.9	214.7	275.3	332.5	348.5
87.5°	46.3	129.6	210.5	256.7	270.2
90°	5.5	103.2	186.0	236.2	251.1
92.5°	16.7	96.6	183.1	238.9	256.8
95°	50.2	147.9	257.7	330.9	362.2
97.5°	252.0	306.2	373.0	451.1	485.3
100°	516.2	574.8	508.4	547.8	558.7
102.5°	797.1	812.7	632.3	584.6	579.6
105°	936.7	942.5	833.4	617.3	574.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	757.8	774.9	776.8	763.0	734.9
115°	650.6	660.6	674.8	679.8	675.9
117.5°	557.6	560.2	576.6	580.7	583.4
120°	462.7	473.7	493.1	492.6	487.9
122.5°	389.2	400.3	415.2	417.5	412.8
125°	320.4	338.0	353.0	354.5	352.6
127.5°	272.8	284.9	301.0	304.5	304.4
130°	238.4	246.7	260.3	264.6	265.5
132.5°	213.2	220.5	229.7	236.7	235.8
135°	193.6	198.2	205.7	211.7	214.4
137.5°	178.7	181.5	187.0	194.1	195.0
140°	164.7	168.4	172.2	177.6	179.3
142.5°	151.8	156.3	159.2	163.7	164.5
145°	142.5	147.0	149.8	151.7	153.4
147.5°	134.9	138.7	140.5	142.4	143.3
150°	128.4	130.3	133.1	134.0	134.9
152.5°	121.9	123.8	126.6	127.5	127.5
155°	116.3	119.1	121.0	121.9	121.0
157.5°	111.7	114.5	116.3	117.2	117.2
160°	107.9	109.8	111.7	112.6	112.6
162.5°	105.2	106.1	107.0	107.9	107.9
165°	102.4	103.3	104.2	104.2	104.2
167.5°	99.6	100.4	100.5	101.4	101.4
170°	96.8	97.7	97.7	97.7	97.7
172.5°	94.9	95.8	95.8	94.9	95.8
175°	93.1	94.0	93.1	93.1	93.1
177.5°	93.9	93.1	92.1	91.3	90.4
180°	92.1	92.1	92.1	92.1	92.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	941.3	956.8	909.4	728.1	616.2
110°	869.5	886.4	865.5	801.4	711.9



(END OF REPORT)