

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: P393415

Luminaire Tested: **24EN-LD2-30-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-31)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-30-UNV-L82765-W2A-1-U (5000K)
Description: 2X4 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2933.7 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

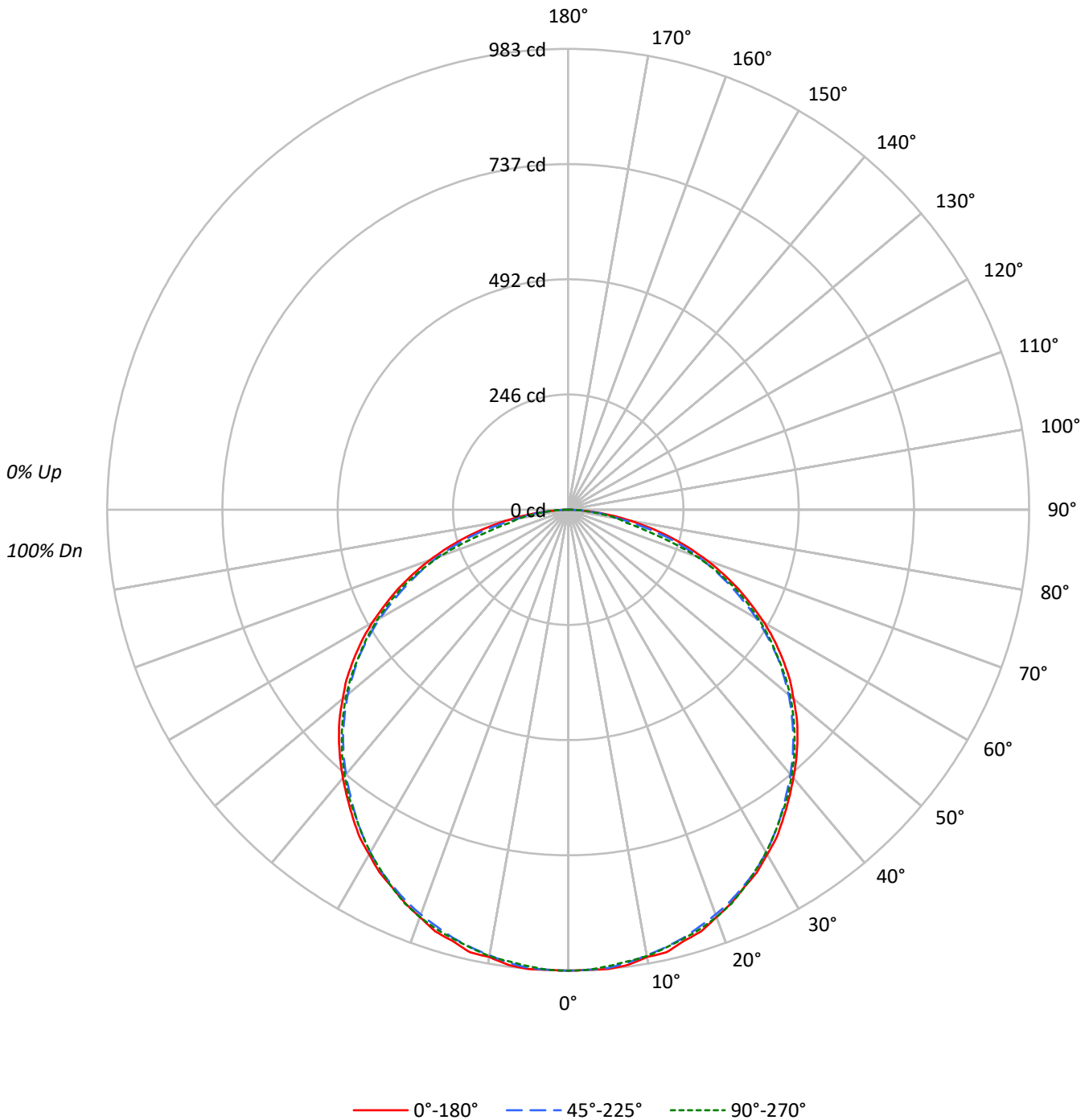
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1323	1323	1323
5°	1328	1326	1320
10°	1324	1319	1321
15°	1327	1318	1320
20°	1324	1316	1324
25°	1319	1314	1320
30°	1319	1311	1311
35°	1316	1301	1303
40°	1312	1295	1302
45°	1316	1292	1299
50°	1313	1284	1294
55°	1311	1275	1277
60°	1300	1248	1266
65°	1275	1208	1238
70°	1235	1171	1145
75°	1163	1078	884
80°	1034	841	818
85°	844	756	682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.2
10°-20°	267.4	9.1
20°-30°	408.6	13.9
30°-40°	498.0	17.0
40°-50°	525.7	17.9
50°-60°	488.0	16.6
60°-70°	382.2	13.0
70°-80°	213.7	7.3
80°-90°	56.9	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	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°	769.2	26.2
0°-40°	1267.2	43.2
0°-60°	2280.9	77.7
0°-90°	2933.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2933.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	983	982	981	981	978	93
15°	953	947	946	945	948	269
25°	888	887	885	882	889	410
35°	801	798	792	795	793	501
45°	691	684	679	675	683	533
55°	559	551	544	541	544	500
65°	400	392	379	383	389	395
75°	224	217	207	178	170	236
85°	55	49	49	46	44	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.3	983.3	983.3	983.3	983.3
2.5°	982.4	984.3	982.4	980.4	982.4
5°	983.3	982.4	981.4	981.4	977.6
7.5°	979.5	977.6	974.7	975.6	971.8
10°	968.9	968.9	965.1	968.0	967.0
12.5°	967.0	957.4	956.4	957.4	957.4
15°	952.6	946.8	945.9	944.9	947.8
17.5°	943.0	933.4	932.4	930.5	937.2
20°	924.7	919.0	919.0	916.1	924.7
22.5°	908.4	902.7	903.6	899.8	909.4
25°	888.3	887.3	885.4	882.5	889.2
27.5°	871.9	868.1	867.1	864.2	866.2
30°	848.9	847.9	844.1	843.1	844.1
32.5°	827.8	824.9	819.1	820.1	819.1
35°	800.9	798.0	792.2	795.1	793.2
37.5°	774.0	771.1	764.4	767.3	769.2
40°	747.1	743.3	737.5	740.4	741.3
42.5°	720.2	713.5	708.7	706.8	713.5
45°	691.4	683.7	678.9	675.1	682.8
47.5°	661.6	653.0	646.3	644.3	651.1
50°	627.1	620.3	613.6	610.7	618.4
52.5°	596.3	585.8	578.1	576.2	582.9
55°	558.9	551.2	543.5	540.6	544.5
57.5°	522.4	513.7	503.2	503.2	508.9
60°	483.0	474.4	463.8	464.8	470.5
62.5°	440.8	435.0	420.6	424.4	430.2
65°	400.4	391.8	379.3	383.1	388.9
67.5°	357.2	349.5	338.0	339.0	341.9
70°	314.0	304.4	297.7	291.0	291.0
72.5°	268.9	261.2	253.5	235.3	231.4
75°	223.7	217.0	207.4	177.7	170.0
77.5°	179.6	174.8	156.5	128.7	125.8
80°	133.5	132.5	108.5	105.6	105.6
82.5°	92.2	88.3	82.6	76.8	73.9
85°	54.7	49.0	49.0	46.1	44.2
87.5°	17.3	20.2	20.2	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)