

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: P393463

Luminaire Tested: **24EN-LD2-34-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-32)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-34-UNV-L92765-W2A-1-U (5000K)
Description: 2X4 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2916.9 lumens
Efficiency: N/A
Efficacy: 123.1 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

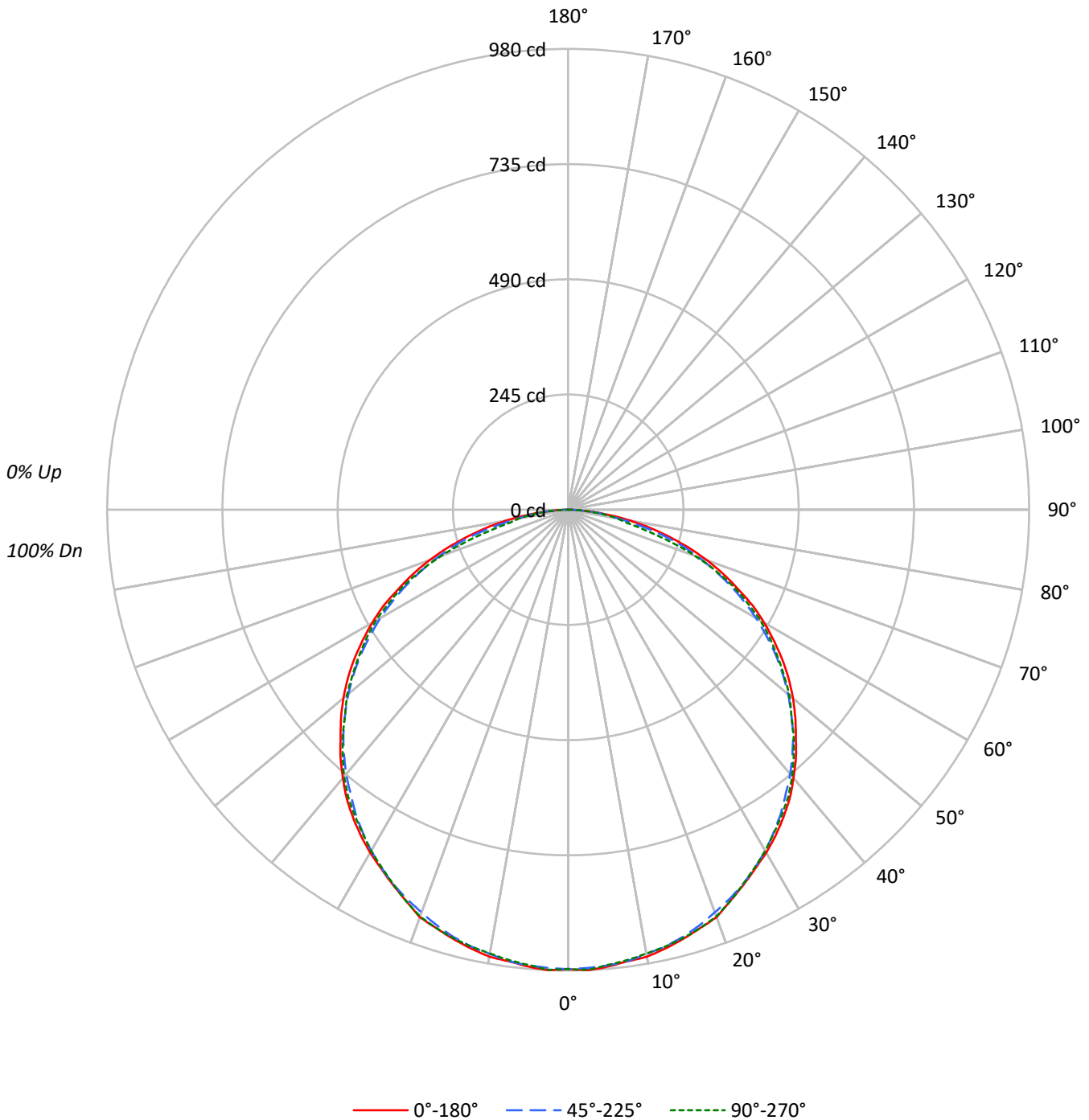
Input Watts (W): 23.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	79	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	41	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	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1314	1314	1314
5°	1317	1314	1313
10°	1319	1311	1309
15°	1316	1310	1314
20°	1320	1305	1318
25°	1308	1305	1305
30°	1308	1302	1302
35°	1311	1294	1301
40°	1309	1290	1301
45°	1302	1286	1290
50°	1306	1277	1284
55°	1303	1263	1273
60°	1295	1241	1270
65°	1266	1208	1237
70°	1234	1157	1131
75°	1157	1069	889
80°	1038	836	823
85°	820	755	690



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	3.2
10°-20°	265.8	9.1
20°-30°	405.4	13.9
30°-40°	494.6	17.0
40°-50°	523.3	17.9
50°-60°	485.1	16.6
60°-70°	380.9	13.1
70°-80°	212.5	7.3
80°-90°	56.8	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°	763.6	26.2
0°-40°	1258.3	43.1
0°-60°	2266.7	77.7
0°-90°	2916.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2916.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	975	974	973	972	972	93
15°	945	942	941	938	943	267
25°	881	879	879	878	879	407
35°	798	792	788	786	792	499
45°	684	682	676	676	678	529
55°	556	546	539	538	543	496
65°	398	390	379	382	389	395
75°	222	214	206	180	171	235
85°	53	49	49	46	45	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	976.9	976.9	976.9	976.9	976.9
2.5°	980.3	976.9	975.2	976.9	979.4
5°	975.2	974.4	972.7	971.9	971.9
7.5°	968.5	970.2	968.5	966.0	966.0
10°	965.1	963.4	959.2	958.4	958.4
12.5°	955.8	953.3	951.6	948.3	951.6
15°	944.9	942.4	940.7	938.1	943.2
17.5°	933.1	927.2	927.2	927.2	933.1
20°	922.1	913.7	911.2	912.9	920.4
22.5°	900.2	896.8	896.0	897.7	901.1
25°	880.8	879.1	879.1	877.5	879.1
27.5°	860.6	860.6	858.9	857.2	858.1
30°	842.1	839.5	837.8	836.2	837.8
32.5°	821.0	816.8	813.4	812.6	814.2
35°	798.2	792.3	788.1	786.4	792.3
37.5°	773.8	765.4	760.3	760.3	768.7
40°	745.1	735.9	734.2	733.3	740.9
42.5°	716.5	709.7	705.5	706.3	709.7
45°	684.4	681.9	676.0	676.0	677.7
47.5°	654.9	651.6	643.1	644.8	643.1
50°	623.7	617.8	610.3	607.7	613.6
52.5°	590.9	584.1	574.9	573.2	578.2
55°	555.5	546.2	538.6	537.8	542.8
57.5°	518.4	509.1	499.8	499.8	508.3
60°	481.3	472.0	461.1	461.1	472.0
62.5°	442.5	432.4	420.6	423.1	429.9
65°	397.8	390.3	379.3	381.8	388.6
67.5°	356.5	348.1	336.3	339.7	339.7
70°	313.6	302.6	294.2	289.1	287.4
72.5°	268.0	258.8	252.9	234.3	229.3
75°	222.5	214.1	205.7	179.5	171.1
77.5°	178.7	172.8	155.9	128.1	124.7
80°	134.0	131.5	107.9	106.2	106.2
82.5°	91.0	89.3	80.9	76.7	75.9
85°	53.1	48.9	48.9	45.5	44.7
87.5°	18.5	19.4	21.1	20.2	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)