

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: P392924

Luminaire Tested: **12EN-LD2-35-UNV-L93050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-39)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-35-UNV-L93050-W2A-1-U (3500K)
Description: 1X2 ENCOUNTER, 3500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2937.6 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

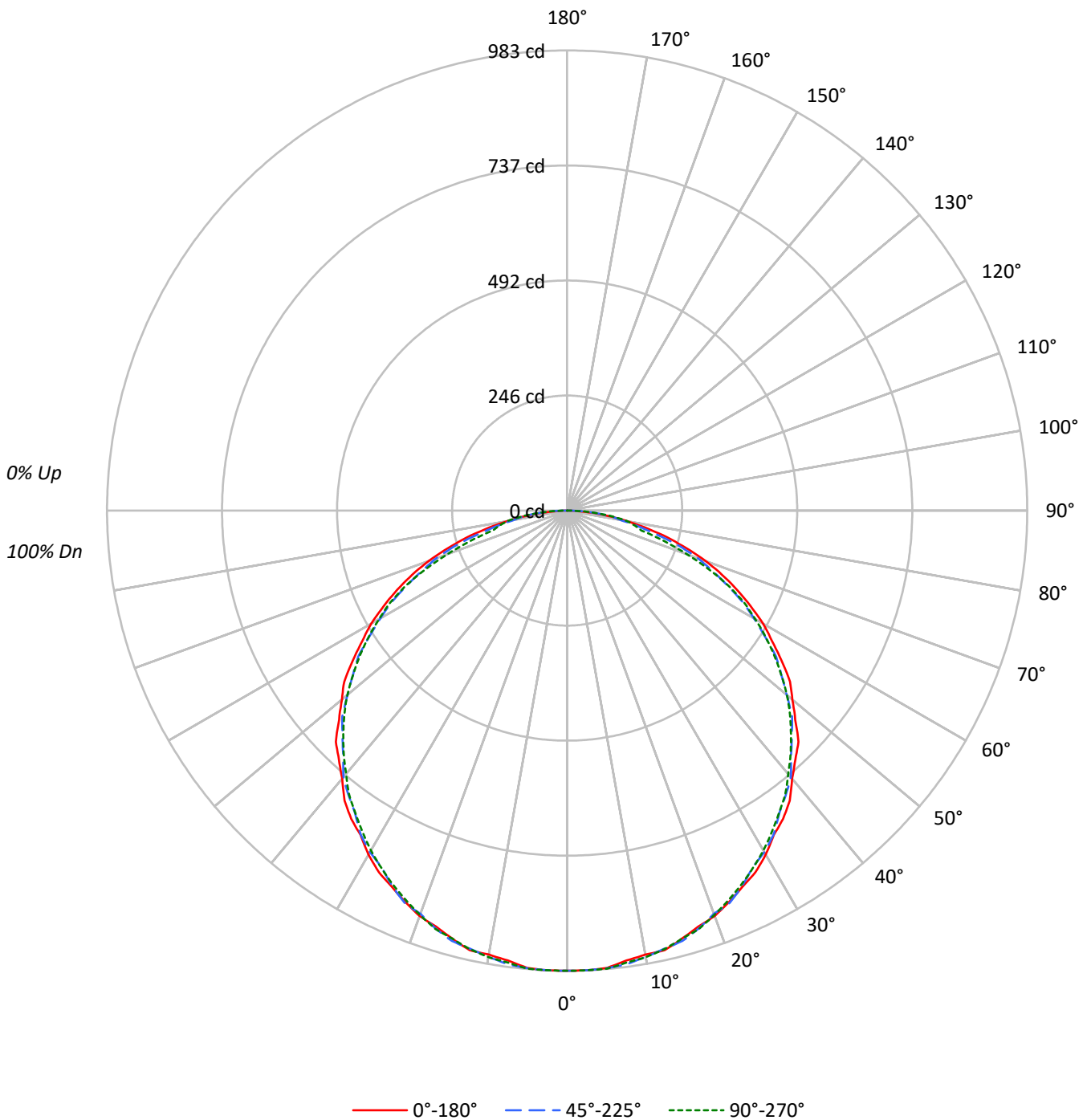
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	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°	5290	5290	5290
5°	5297	5302	5306
10°	5262	5290	5294
15°	5276	5304	5276
20°	5279	5250	5264
25°	5263	5254	5233
30°	5273	5236	5210
35°	5282	5188	5183
40°	5252	5223	5164
45°	5319	5165	5146
50°	5260	5126	5133
55°	5247	5113	5073
60°	5204	4960	4997
65°	5098	4797	4851
70°	4949	4670	4288
75°	4600	4144	3427
80°	4014	3570	4038
85°	3217	3841	3896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.2
10°-20°	267.7	9.1
20°-30°	407.6	13.9
30°-40°	497.2	16.9
40°-50°	526.2	17.9
50°-60°	487.4	16.6
60°-70°	379.7	12.9
70°-80°	213.0	7.2
80°-90°	65.7	2.2
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°	768.5	26.2
0°-40°	1265.7	43.1
0°-60°	2279.3	77.6
0°-90°	2937.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2937.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	980	981	981	983	982	93
15°	947	949	952	949	947	267
25°	886	885	885	879	881	410
35°	804	797	790	788	789	502
45°	699	690	679	677	676	535
55°	559	555	545	537	541	500
65°	400	393	377	379	381	396
75°	221	214	199	178	165	233
85°	52	54	62	63	63	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.0	983.0	983.0	983.0	983.0
2.5°	983.0	981.4	983.0	982.2	983.0
5°	980.5	981.4	981.4	983.0	982.2
7.5°	969.6	973.8	977.2	976.3	973.8
10°	962.9	967.1	967.9	966.2	968.7
12.5°	962.0	962.9	958.7	961.2	959.5
15°	946.9	948.6	951.9	948.6	946.9
17.5°	931.7	935.1	936.0	933.4	936.8
20°	921.7	924.2	916.6	920.0	919.1
22.5°	904.8	905.7	907.4	901.5	900.6
25°	886.3	884.7	884.7	878.8	881.3
27.5°	871.2	865.3	858.6	862.0	860.3
30°	848.5	847.7	842.6	839.2	838.4
32.5°	821.6	822.4	820.7	813.2	814.0
35°	803.9	797.2	789.6	787.9	788.8
37.5°	781.2	775.3	766.9	764.4	765.2
40°	747.6	746.7	743.4	733.3	735.0
42.5°	721.5	716.5	708.1	703.9	706.4
45°	698.8	690.4	678.6	676.9	676.1
47.5°	661.0	659.3	651.7	642.5	645.8
50°	628.2	624.8	612.2	607.1	613.0
52.5°	600.4	592.0	576.9	576.0	576.9
55°	559.2	555.0	544.9	537.4	540.7
57.5°	518.9	515.5	501.2	498.7	502.9
60°	483.5	477.6	460.8	460.0	464.2
62.5°	441.5	437.3	422.1	422.1	426.4
65°	400.3	392.7	376.7	379.3	380.9
67.5°	358.2	349.0	334.7	332.2	327.1
70°	314.5	305.3	296.8	280.9	272.5
72.5°	266.6	259.8	250.6	226.2	217.8
75°	221.2	214.4	199.3	178.3	164.8
77.5°	173.2	170.7	153.0	144.6	148.0
80°	129.5	128.7	115.2	126.1	130.3
82.5°	88.3	84.9	93.3	98.4	98.4
85°	52.1	53.8	62.2	63.1	63.1
87.5°	21.0	24.4	28.6	30.3	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)