

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: P392919

Luminaire Tested: **12EN-LD2-35-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392919
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-L92765-W2A-1-U (5000K)
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: 2944.5 lumens
Efficiency: N/A
Efficacy: 96.5 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

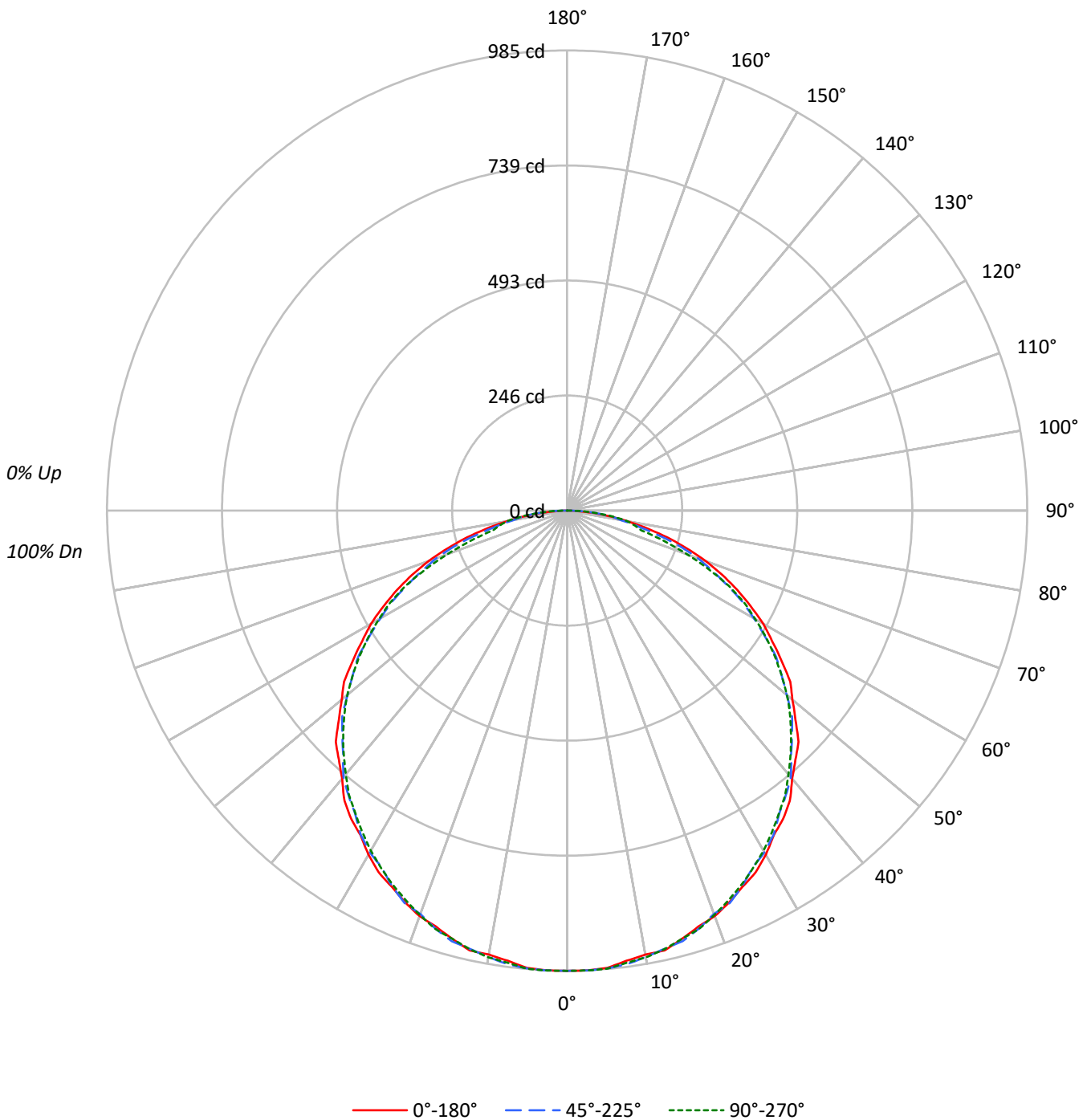
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5303	5303	5303
5°	5310	5314	5319
10°	5274	5302	5306
15°	5288	5317	5288
20°	5291	5262	5277
25°	5276	5266	5246
30°	5285	5249	5223
35°	5294	5200	5194
40°	5264	5235	5176
45°	5331	5177	5158
50°	5272	5138	5145
55°	5259	5125	5086
60°	5217	4972	5008
65°	5109	4809	4862
70°	4960	4681	4297
75°	4610	4155	3435
80°	4023	3580	4048
85°	3230	3853	3903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	3.2
10°-20°	268.4	9.1
20°-30°	408.6	13.9
30°-40°	498.3	16.9
40°-50°	527.4	17.9
50°-60°	488.6	16.6
60°-70°	380.5	12.9
70°-80°	213.5	7.2
80°-90°	65.8	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°	770.3	26.2
0°-40°	1268.7	43.1
0°-60°	2284.6	77.6
0°-90°	2944.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2944.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	985	985	985	985	985	
5°	983	984	984	985	984	93
15°	949	951	954	951	949	268
25°	888	887	887	881	883	410
35°	806	799	792	790	791	503
45°	700	692	680	678	678	536
55°	560	556	546	539	542	501
65°	401	394	378	380	382	397
75°	222	215	200	179	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°	985.3	985.3	985.3	985.3	985.3
2.5°	985.3	983.7	985.3	984.5	985.3
5°	982.8	983.7	983.7	985.3	984.5
7.5°	971.9	976.1	979.4	978.6	976.1
10°	965.1	969.3	970.2	968.5	971.0
12.5°	964.3	965.1	960.9	963.4	961.7
15°	949.1	950.8	954.2	950.8	949.1
17.5°	933.9	937.3	938.1	935.6	939.0
20°	923.8	926.3	918.8	922.1	921.3
22.5°	907.0	907.8	909.5	903.6	902.7
25°	888.4	886.7	886.7	880.8	883.4
27.5°	873.2	867.3	860.6	864.0	862.3
30°	850.5	849.6	844.6	841.2	840.4
32.5°	823.5	824.4	822.7	815.1	815.9
35°	805.8	799.1	791.5	789.8	790.6
37.5°	783.1	777.2	768.7	766.2	767.0
40°	749.3	748.5	745.1	735.0	736.7
42.5°	723.2	718.1	709.7	705.5	708.0
45°	700.4	692.0	680.2	678.5	677.7
47.5°	662.5	660.8	653.2	644.0	647.3
50°	629.6	626.3	613.6	608.6	614.5
52.5°	601.8	593.4	578.2	577.4	578.2
55°	560.5	556.3	546.2	538.6	542.0
57.5°	520.1	516.7	502.4	499.8	504.1
60°	484.7	478.8	461.9	461.1	465.3
62.5°	442.5	438.3	423.1	423.1	427.3
65°	401.2	393.6	377.6	380.1	381.8
67.5°	359.1	349.8	335.5	332.9	327.9
70°	315.2	306.0	297.5	281.5	273.1
72.5°	267.2	260.5	251.2	226.7	218.3
75°	221.7	214.9	199.8	178.7	165.2
77.5°	173.6	171.1	153.4	145.0	148.4
80°	129.8	129.0	115.5	126.4	130.6
82.5°	88.5	85.1	93.6	98.6	98.6
85°	52.3	53.9	62.4	63.2	63.2
87.5°	21.1	24.4	28.7	30.3	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)