

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: P392918

Luminaire Tested: **12EN-LD2-35-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392918
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 (4500K)
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: 2869.7 lumens
Efficiency: N/A
Efficacy: 94.1 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

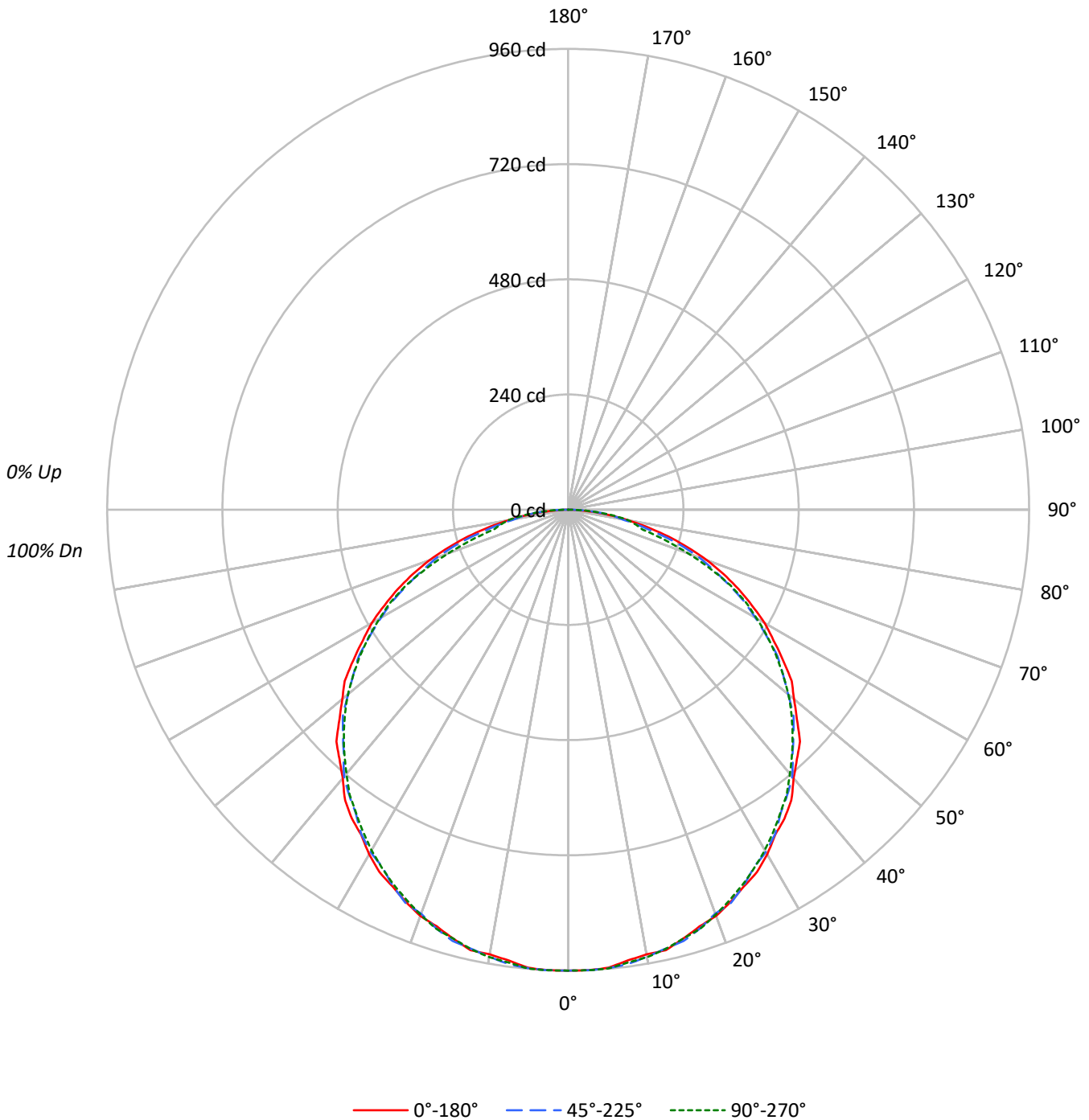
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5168	5168	5168
5°	5175	5179	5184
10°	5140	5167	5172
15°	5154	5181	5154
20°	5157	5128	5143
25°	5142	5132	5112
30°	5151	5115	5090
35°	5160	5068	5063
40°	5131	5102	5044
45°	5196	5045	5027
50°	5138	5007	5014
55°	5126	4995	4956
60°	5085	4846	4881
65°	4979	4686	4739
70°	4834	4563	4189
75°	4494	4049	3348
80°	3921	3487	3945
85°	3143	3754	3804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	3.2
10°-20°	261.6	9.1
20°-30°	398.2	13.9
30°-40°	485.7	16.9
40°-50°	514.0	17.9
50°-60°	476.1	16.6
60°-70°	370.9	12.9
70°-80°	208.1	7.2
80°-90°	64.2	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°	750.8	26.2
0°-40°	1236.4	43.1
0°-60°	2226.6	77.6
0°-90°	2869.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2869.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	958	959	959	960	960	91
15°	925	927	930	927	925	261
25°	866	864	864	858	861	400
35°	785	779	771	770	771	491
45°	683	674	663	661	660	523
55°	546	542	532	525	528	488
65°	391	384	368	370	372	387
75°	216	210	195	174	161	227
85°	51	53	61	62	62	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.3	960.3	960.3	960.3	960.3
2.5°	960.3	958.7	960.3	959.5	960.3
5°	957.9	958.7	958.7	960.3	959.5
7.5°	947.2	951.3	954.6	953.8	951.3
10°	940.6	944.7	945.5	943.9	946.4
12.5°	939.8	940.6	936.5	939.0	937.3
15°	925.0	926.6	929.9	926.6	925.0
17.5°	910.2	913.5	914.3	911.9	915.1
20°	900.4	902.8	895.4	898.7	897.9
22.5°	883.9	884.7	886.4	880.6	879.8
25°	865.9	864.2	864.2	858.5	860.9
27.5°	851.1	845.3	838.7	842.0	840.4
30°	828.9	828.1	823.1	819.8	819.0
32.5°	802.6	803.4	801.8	794.4	795.2
35°	785.3	778.8	771.4	769.7	770.6
37.5°	763.2	757.4	749.2	746.7	747.6
40°	730.3	729.5	726.2	716.3	718.0
42.5°	704.8	699.9	691.7	687.6	690.1
45°	682.7	674.4	662.9	661.3	660.5
47.5°	645.7	644.0	636.7	627.6	630.9
50°	613.7	610.4	598.0	593.1	598.9
52.5°	586.5	578.3	563.5	562.7	563.5
55°	546.3	542.2	532.3	524.9	528.2
57.5°	506.9	503.6	489.6	487.1	491.3
60°	472.4	466.6	450.2	449.4	453.5
62.5°	431.3	427.2	412.4	412.4	416.5
65°	391.0	383.6	368.0	370.5	372.1
67.5°	350.0	340.9	327.0	324.5	319.6
70°	307.2	298.2	290.0	274.4	266.2
72.5°	260.4	253.8	244.8	221.0	212.8
75°	216.1	209.5	194.7	174.2	161.0
77.5°	169.2	166.8	149.5	141.3	144.6
80°	126.5	125.7	112.5	123.2	127.3
82.5°	86.3	83.0	91.2	96.1	96.1
85°	50.9	52.6	60.8	61.6	61.6
87.5°	20.5	23.8	27.9	29.6	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)