

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: P392922

Luminaire Tested: **12EN-LD2-35-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392922  
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 (2700K)  
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: 3016.2 lumens  
Efficiency: N/A  
Efficacy: 99.2 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

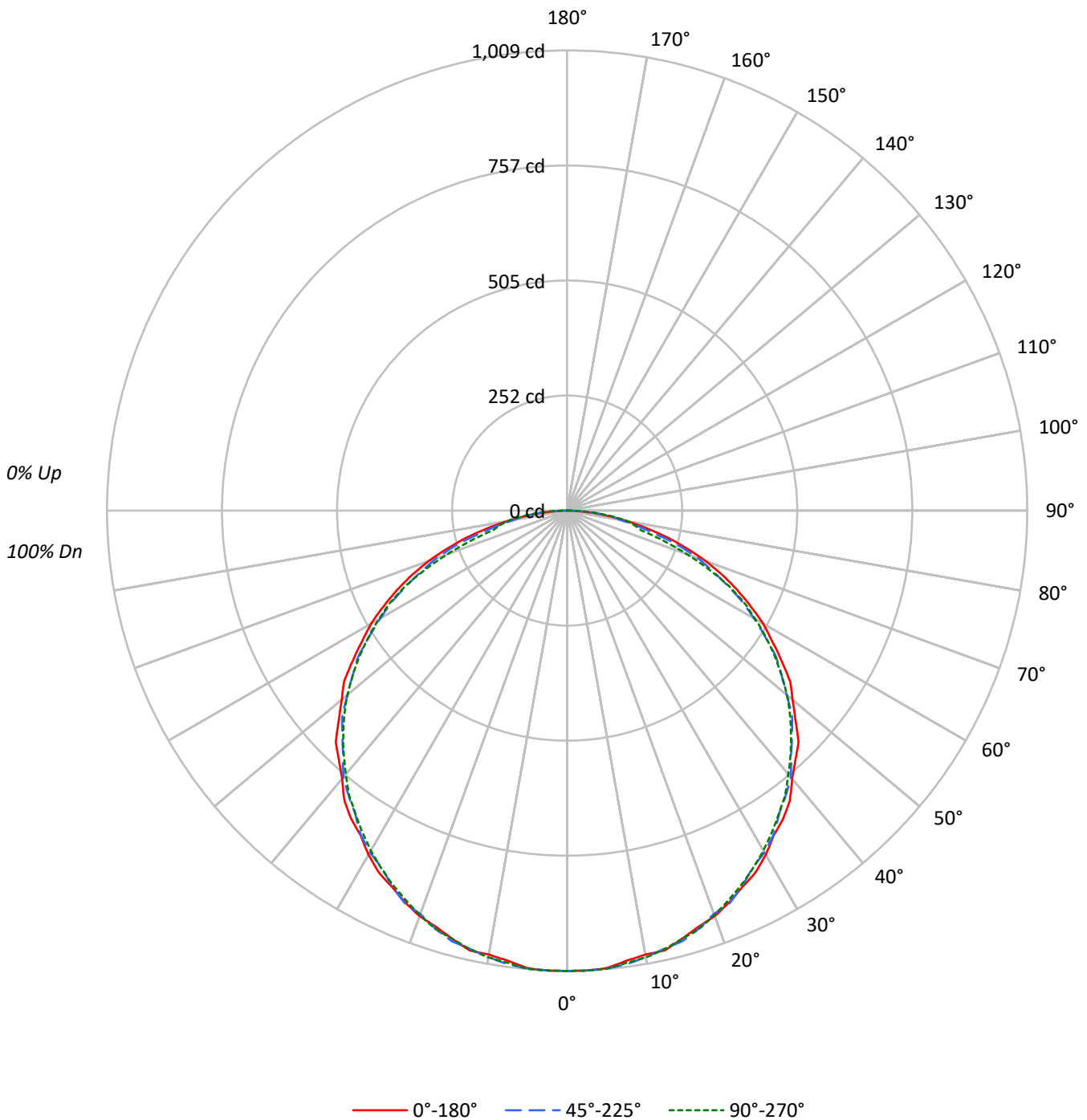
Input Watts (W): 30.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5433	5433	5433
5°	5439	5444	5448
10°	5403	5431	5436
15°	5417	5446	5417
20°	5420	5390	5405
25°	5404	5394	5374
30°	5414	5377	5349
35°	5423	5327	5321
40°	5393	5363	5302
45°	5461	5304	5284
50°	5400	5263	5270
55°	5388	5250	5210
60°	5344	5093	5130
65°	5234	4926	4981
70°	5081	4796	4403
75°	4722	4255	3518
80°	4122	3667	4147
85°	3304	3946	4001



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.7	3.2
10°-20°	274.9	9.1
20°-30°	418.5	13.9
30°-40°	510.5	16.9
40°-50°	540.3	17.9
50°-60°	500.5	16.6
60°-70°	389.8	12.9
70°-80°	218.7	7.2
80°-90°	67.4	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°	789.1	26.2
0°-40°	1299.6	43.1
0°-60°	2340.3	77.6
0°-90°	3016.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3016.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1009	1009	1009	1009	1009	
5°	1007	1008	1008	1009	1008	95
15°	972	974	977	974	972	275
25°	910	908	908	902	905	421
35°	825	818	811	809	810	516
45°	718	709	697	695	694	549
55°	574	570	560	552	555	513
65°	411	403	387	389	391	406
75°	227	220	205	183	169	239
85°	54	55	64	65	65	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1009.4	1009.4	1009.4	1009.4	1009.4
2.5°	1009.4	1007.6	1009.4	1008.5	1009.4
5°	1006.8	1007.6	1007.6	1009.4	1008.5
7.5°	995.5	999.9	1003.3	1002.4	999.9
10°	988.6	992.9	993.8	992.1	994.7
12.5°	987.8	988.6	984.3	986.9	985.2
15°	972.2	973.9	977.4	973.9	972.2
17.5°	956.7	960.1	961.0	958.4	961.9
20°	946.3	948.9	941.1	944.6	943.7
22.5°	929.1	929.9	931.6	925.6	924.7
25°	910.1	908.3	908.3	902.3	904.9
27.5°	894.5	888.5	881.6	885.0	883.3
30°	871.2	870.3	865.2	861.7	860.8
32.5°	843.6	844.4	842.7	834.9	835.8
35°	825.4	818.5	810.8	809.0	809.9
37.5°	802.1	796.1	787.4	784.9	785.7
40°	767.6	766.7	763.3	752.9	754.6
42.5°	740.8	735.6	727.0	722.7	725.3
45°	717.5	708.9	696.8	695.1	694.2
47.5°	678.7	676.9	669.2	659.7	663.1
50°	645.0	641.5	628.6	623.4	629.4
52.5°	616.5	607.9	592.3	591.5	592.3
55°	574.2	569.9	559.5	551.7	555.2
57.5°	532.7	529.3	514.6	512.0	516.3
60°	496.5	490.4	473.2	472.3	476.6
62.5°	453.3	449.0	433.4	433.4	437.8
65°	411.0	403.2	386.8	389.4	391.1
67.5°	367.8	358.3	343.6	341.1	335.9
70°	322.9	313.4	304.8	288.4	279.8
72.5°	273.7	266.8	257.3	232.3	223.6
75°	227.1	220.2	204.6	183.0	169.2
77.5°	177.9	175.3	157.1	148.5	152.0
80°	133.0	132.1	118.3	129.5	133.8
82.5°	90.7	87.2	95.8	101.0	101.0
85°	53.5	55.3	63.9	64.8	64.8
87.5°	21.6	25.0	29.4	31.1	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)