

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: P392928

Luminaire Tested: **12EN-LD2-35-UNV-L93050-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392928
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 (5700K)
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: 3081.6 lumens
Efficiency: N/A
Efficacy: 102.7 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

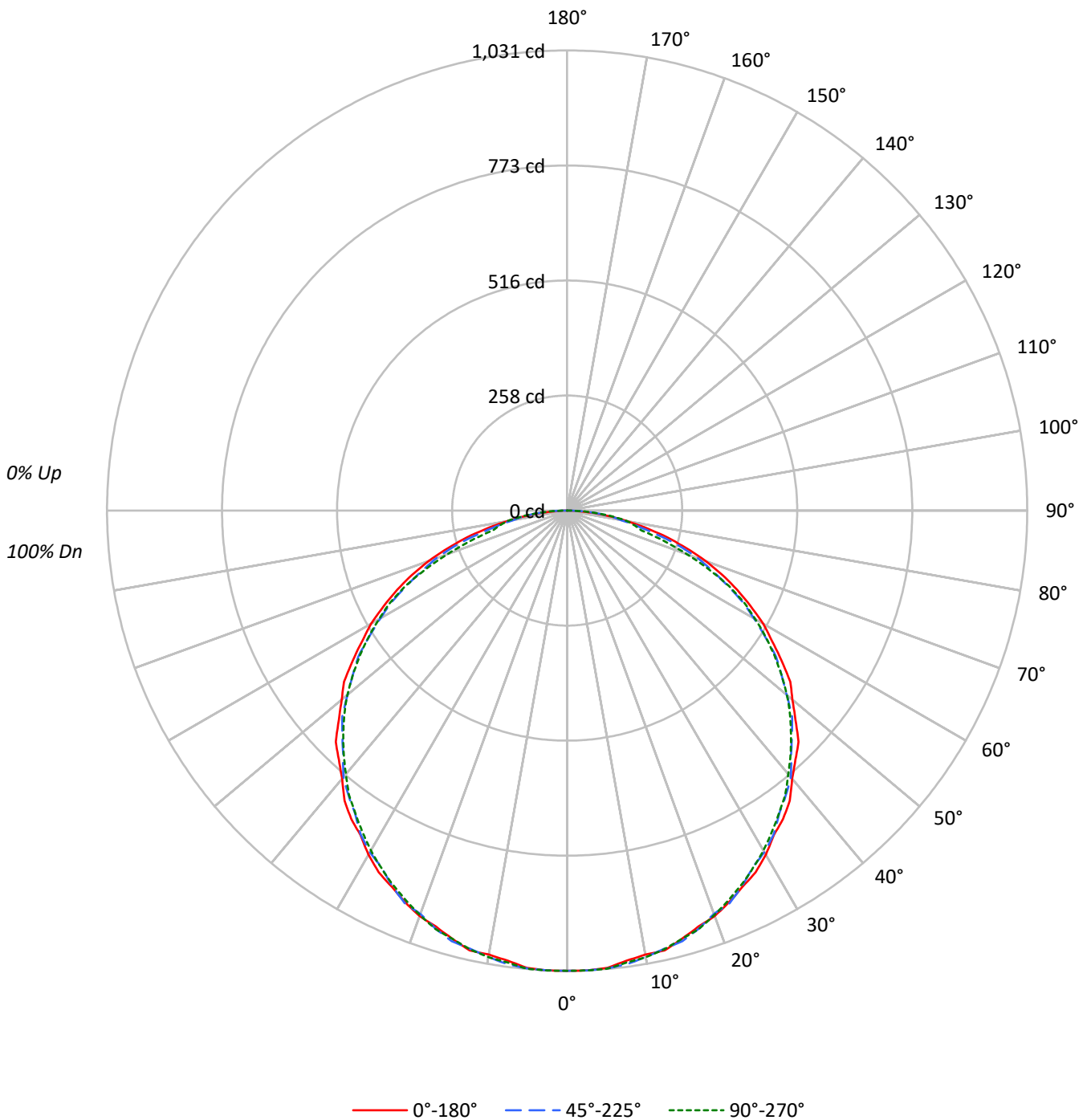
Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5550	5550	5550
5°	5557	5562	5566
10°	5520	5549	5554
15°	5534	5564	5534
20°	5537	5507	5522
25°	5521	5511	5490
30°	5532	5493	5466
35°	5541	5442	5437
40°	5510	5479	5417
45°	5580	5418	5398
50°	5518	5377	5385
55°	5504	5363	5322
60°	5459	5203	5241
65°	5347	5033	5089
70°	5191	4900	4497
75°	4824	4348	3595
80°	4212	3747	4237
85°	3378	4032	4088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	3.2
10°-20°	280.9	9.1
20°-30°	427.6	13.9
30°-40°	521.5	16.9
40°-50°	552.0	17.9
50°-60°	511.3	16.6
60°-70°	398.3	12.9
70°-80°	223.4	7.2
80°-90°	68.9	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
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0°-30°	806.2	26.2
0°-40°	1327.7	43.1
0°-60°	2391.0	77.6
0°-90°	3081.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3081.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1029	1030	1030	1031	1030	97
15°	993	995	999	995	993	280
25°	930	928	928	922	924	430
35°	843	836	828	827	828	527
45°	733	724	712	710	709	561
55°	587	582	572	564	567	524
65°	420	412	395	398	400	415
75°	232	225	209	187	173	244
85°	55	56	65	66	66	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1031.2	1031.2	1031.2	1031.2	1031.2
2.5°	1031.2	1029.5	1031.2	1030.3	1031.2
5°	1028.6	1029.5	1029.5	1031.2	1030.3
7.5°	1017.1	1021.5	1025.1	1024.2	1021.5
10°	1010.1	1014.5	1015.4	1013.6	1016.2
12.5°	1009.2	1010.1	1005.6	1008.3	1006.5
15°	993.3	995.1	998.6	995.1	993.3
17.5°	977.4	980.9	981.8	979.2	982.7
20°	966.8	969.5	961.5	965.1	964.2
22.5°	949.2	950.1	951.8	945.7	944.8
25°	929.8	928.0	928.0	921.8	924.5
27.5°	913.9	907.7	900.7	904.2	902.4
30°	890.1	889.2	883.9	880.4	879.5
32.5°	861.9	862.7	861.0	853.0	853.9
35°	843.3	836.3	828.3	826.6	827.5
37.5°	819.5	813.3	804.5	801.9	802.8
40°	784.2	783.3	779.8	769.2	771.0
42.5°	756.9	751.6	742.8	738.4	741.0
45°	733.1	724.2	711.9	710.1	709.2
47.5°	693.4	691.6	683.7	674.0	677.5
50°	659.0	655.4	642.2	636.9	643.1
52.5°	629.9	621.0	605.2	604.3	605.2
55°	586.6	582.2	571.6	563.7	567.2
57.5°	544.3	540.8	525.8	523.1	527.5
60°	507.2	501.1	483.4	482.5	486.9
62.5°	463.1	458.7	442.8	442.8	447.2
65°	419.9	412.0	395.2	397.8	399.6
67.5°	375.8	366.1	351.1	348.4	343.2
70°	329.9	320.2	311.4	294.6	285.8
72.5°	279.6	272.6	262.9	237.3	228.5
75°	232.0	224.9	209.1	187.0	172.9
77.5°	181.7	179.1	160.6	151.7	155.3
80°	135.9	135.0	120.9	132.3	136.7
82.5°	92.6	89.1	97.9	103.2	103.2
85°	54.7	56.5	65.3	66.2	66.2
87.5°	22.1	25.6	30.0	31.8	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)