

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: P392926

Luminaire Tested: **12EN-LD2-35-UNV-L93050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392926
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 (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: 3067.4 lumens
Efficiency: N/A
Efficacy: 101.9 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

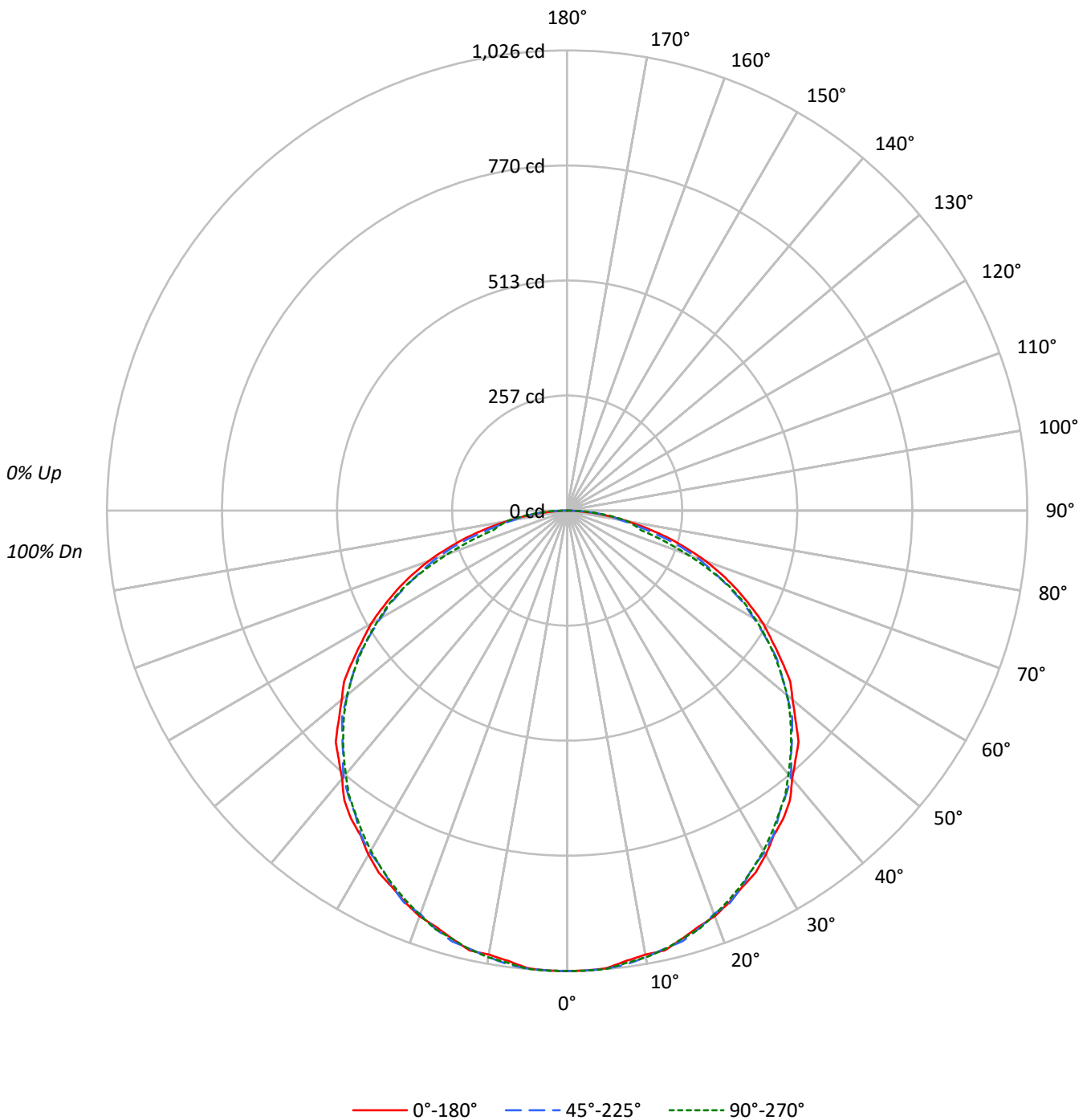
Input Watts (W): 30.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5525	5525	5525
5°	5531	5536	5541
10°	5494	5523	5528
15°	5509	5538	5509
20°	5512	5482	5497
25°	5496	5485	5464
30°	5506	5468	5440
35°	5515	5417	5411
40°	5484	5453	5391
45°	5554	5393	5374
50°	5492	5352	5359
55°	5479	5339	5298
60°	5435	5180	5217
65°	5323	5010	5066
70°	5168	4878	4477
75°	4801	4327	3579
80°	4190	3729	4218
85°	3359	4014	4069



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	3.2
10°-20°	279.6	9.1
20°-30°	425.6	13.9
30°-40°	519.1	16.9
40°-50°	549.4	17.9
50°-60°	509.0	16.6
60°-70°	396.4	12.9
70°-80°	222.4	7.2
80°-90°	68.6	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°	802.5	26.2
0°-40°	1321.6	43.1
0°-60°	2380.0	77.6
0°-90°	3067.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3067.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1024	1025	1025	1026	1026	97
15°	989	990	994	990	989	279
25°	926	924	924	918	920	428
35°	839	832	824	823	824	524
45°	730	721	709	707	706	559
55°	584	580	569	561	565	522
65°	418	410	393	396	398	413
75°	231	224	208	186	172	243
85°	54	56	65	66	66	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1026.5	1026.5	1026.5	1026.5	1026.5
2.5°	1026.5	1024.7	1026.5	1025.6	1026.5
5°	1023.8	1024.7	1024.7	1026.5	1025.6
7.5°	1012.4	1016.8	1020.3	1019.5	1016.8
10°	1005.4	1009.8	1010.7	1008.9	1011.6
12.5°	1004.5	1005.4	1001.0	1003.6	1001.9
15°	988.7	990.5	994.0	990.5	988.7
17.5°	972.9	976.4	977.3	974.7	978.2
20°	962.4	965.0	957.1	960.6	959.7
22.5°	944.8	945.7	947.5	941.3	940.4
25°	925.5	923.7	923.7	917.6	920.2
27.5°	909.7	903.5	896.5	900.0	898.3
30°	886.0	885.1	879.8	876.3	875.4
32.5°	857.9	858.8	857.0	849.1	850.0
35°	839.4	832.4	824.5	822.8	823.6
37.5°	815.7	809.6	800.8	798.2	799.1
40°	780.6	779.7	776.2	765.7	767.4
42.5°	753.4	748.1	739.3	735.0	737.6
45°	729.7	720.9	708.6	706.9	706.0
47.5°	690.2	688.4	680.5	670.9	674.4
50°	655.9	652.4	639.2	634.0	640.1
52.5°	627.0	618.2	602.4	601.5	602.4
55°	583.9	579.5	569.0	561.1	564.6
57.5°	541.8	538.3	523.3	520.7	525.1
60°	504.9	498.8	481.2	480.3	484.7
62.5°	461.0	456.6	440.8	440.8	445.2
65°	418.0	410.1	393.4	396.0	397.8
67.5°	374.1	364.4	349.5	346.8	341.6
70°	328.4	318.7	310.0	293.3	284.5
72.5°	278.4	271.3	261.7	236.2	227.4
75°	230.9	223.9	208.1	186.2	172.1
77.5°	180.9	178.3	159.8	151.0	154.5
80°	135.2	134.3	120.3	131.7	136.1
82.5°	92.2	88.7	97.5	102.7	102.7
85°	54.4	56.2	65.0	65.9	65.9
87.5°	22.0	25.5	29.9	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)