

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: P392925

Luminaire Tested: **12EN-LD2-35-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392925
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 (4000K)
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: 3051.4 lumens
Efficiency: N/A
Efficacy: 101.0 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

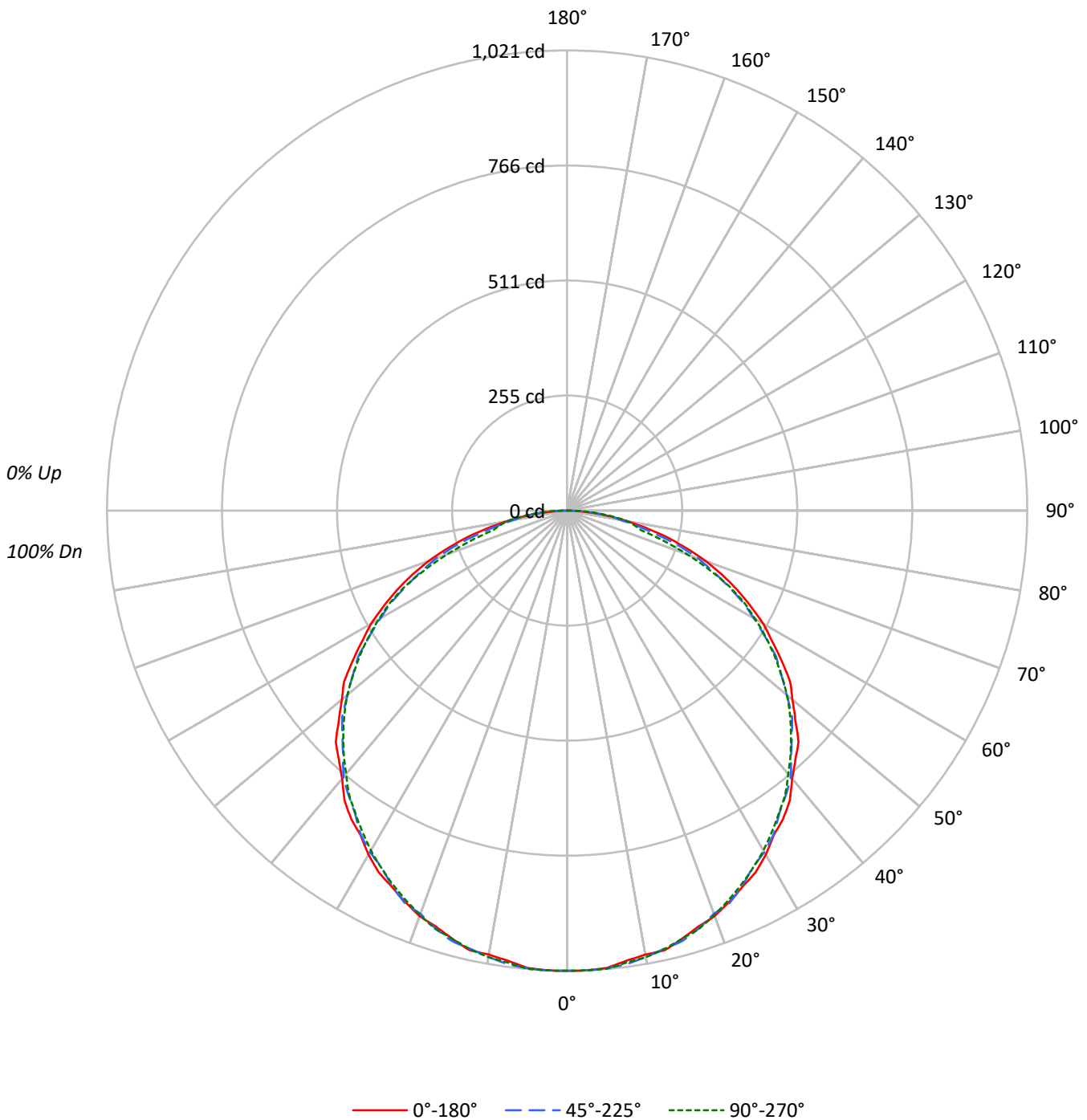
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5496	5496	5496
5°	5502	5507	5512
10°	5466	5494	5499
15°	5480	5509	5480
20°	5483	5453	5468
25°	5467	5457	5436
30°	5478	5440	5412
35°	5487	5389	5383
40°	5455	5425	5363
45°	5525	5365	5345
50°	5463	5324	5332
55°	5451	5311	5271
60°	5407	5153	5190
65°	5295	4983	5039
70°	5141	4851	4453
75°	4776	4304	3560
80°	4169	3710	4197
85°	3347	3989	4045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	3.2
10°-20°	278.1	9.1
20°-30°	423.4	13.9
30°-40°	516.4	16.9
40°-50°	546.6	17.9
50°-60°	506.3	16.6
60°-70°	394.4	12.9
70°-80°	221.2	7.2
80°-90°	68.2	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°	798.3	26.2
0°-40°	1314.7	43.1
0°-60°	2367.6	77.6
0°-90°	3051.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3051.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1018	1019	1019	1021	1020	96
15°	984	985	989	985	984	278
25°	921	919	919	913	915	425
35°	835	828	820	818	819	522
45°	726	717	705	703	702	556
55°	581	576	566	558	562	519
65°	416	408	391	394	396	411
75°	230	223	207	185	171	242
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°	1021.1	1021.1	1021.1	1021.1	1021.1
2.5°	1021.1	1019.4	1021.1	1020.3	1021.1
5°	1018.5	1019.4	1019.4	1021.1	1020.3
7.5°	1007.2	1011.5	1015.0	1014.1	1011.5
10°	1000.2	1004.5	1005.4	1003.7	1006.3
12.5°	999.3	1000.2	995.8	998.4	996.7
15°	983.6	985.3	988.8	985.3	983.6
17.5°	967.8	971.3	972.2	969.6	973.1
20°	957.4	960.0	952.1	955.6	954.7
22.5°	939.9	940.8	942.5	936.4	935.5
25°	920.7	918.9	918.9	912.8	915.4
27.5°	905.0	898.8	891.8	895.3	893.6
30°	881.4	880.5	875.3	871.8	870.9
32.5°	853.4	854.3	852.5	844.7	845.6
35°	835.1	828.1	820.2	818.5	819.3
37.5°	811.5	805.4	796.6	794.0	794.9
40°	776.5	775.7	772.2	761.7	763.4
42.5°	749.5	744.2	735.5	731.1	733.7
45°	725.9	717.1	704.9	703.2	702.3
47.5°	686.6	684.8	677.0	667.4	670.9
50°	652.5	649.0	635.9	630.7	636.8
52.5°	623.7	614.9	599.2	598.4	599.2
55°	580.9	576.5	566.0	558.2	561.7
57.5°	539.0	535.5	520.6	518.0	522.4
60°	502.3	496.2	478.7	477.8	482.2
62.5°	458.6	454.2	438.5	438.5	442.9
65°	415.8	407.9	391.3	394.0	395.7
67.5°	372.1	362.5	347.7	345.0	339.8
70°	326.7	317.1	308.3	291.8	283.0
72.5°	276.9	269.9	260.3	235.0	226.2
75°	229.7	222.7	207.0	185.2	171.2
77.5°	179.9	177.3	159.0	150.2	153.7
80°	134.5	133.6	119.7	131.0	135.4
82.5°	91.7	88.2	97.0	102.2	102.2
85°	54.2	55.9	64.6	65.5	65.5
87.5°	21.8	25.3	29.7	31.4	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)