

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: P392898

Luminaire Tested: **12EN-LD2-35-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392898
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-L82765-W2A-1-U (2700K)
Description: 1X2 ENCOUNTER, 3500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3173.4 lumens
Efficiency: N/A
Efficacy: 103.7 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

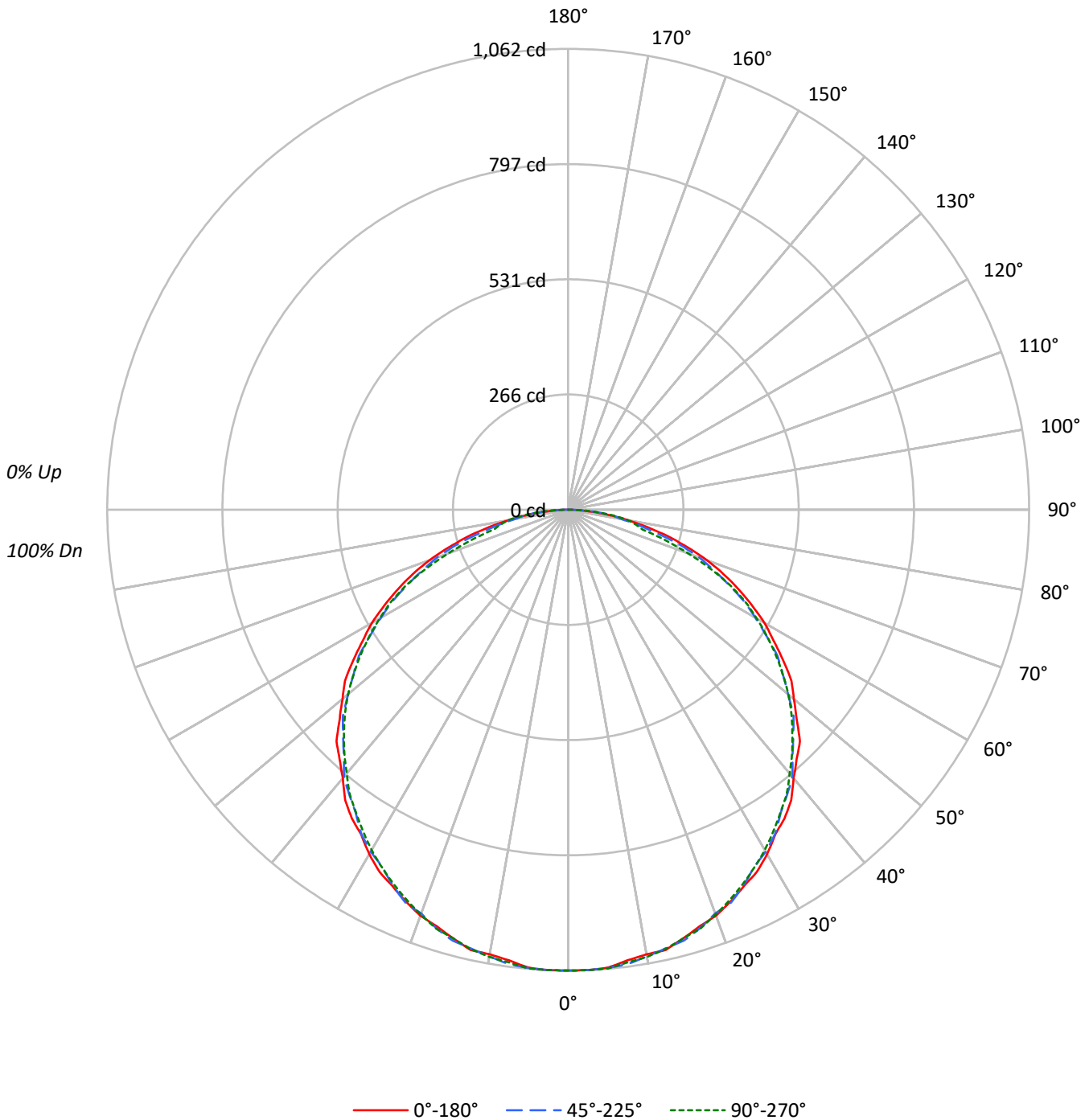
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5716	5716	5716
5°	5722	5727	5732
10°	5685	5714	5719
15°	5699	5729	5699
20°	5702	5671	5687
25°	5686	5675	5653
30°	5696	5656	5629
35°	5706	5604	5598
40°	5674	5642	5578
45°	5746	5580	5559
50°	5682	5537	5544
55°	5668	5524	5481
60°	5622	5358	5398
65°	5507	5183	5240
70°	5347	5046	4631
75°	4968	4477	3703
80°	4336	3859	4364
85°	3477	4150	4205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.2
10°-20°	289.2	9.1
20°-30°	440.3	13.9
30°-40°	537.1	16.9
40°-50°	568.4	17.9
50°-60°	526.5	16.6
60°-70°	410.1	12.9
70°-80°	230.1	7.2
80°-90°	70.9	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
0°-30°	830.2	26.2
0°-40°	1367.3	43.1
0°-60°	2462.3	77.6
0°-90°	3173.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3173.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1059	1060	1060	1062	1061	100
15°	1023	1025	1028	1025	1023	289
25°	958	956	956	949	952	442
35°	868	861	853	851	852	542
45°	755	746	733	731	730	578
55°	604	600	589	580	584	540
65°	432	424	407	410	412	428
75°	239	232	215	193	178	251
85°	56	58	67	68	68	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1062.0	1062.0	1062.0	1062.0	1062.0
2.5°	1062.0	1060.1	1062.0	1061.0	1062.0
5°	1059.2	1060.1	1060.1	1062.0	1061.0
7.5°	1047.4	1052.0	1055.6	1054.7	1052.0
10°	1040.2	1044.7	1045.6	1043.8	1046.5
12.5°	1039.2	1040.2	1035.6	1038.3	1036.5
15°	1022.9	1024.7	1028.3	1024.7	1022.9
17.5°	1006.5	1010.2	1011.1	1008.4	1012.0
20°	995.6	998.4	990.2	993.8	992.9
22.5°	977.5	978.4	980.2	973.8	972.9
25°	957.5	955.7	955.7	949.3	952.0
27.5°	941.1	934.8	927.5	931.1	929.3
30°	916.6	915.7	910.2	906.6	905.7
32.5°	887.5	888.4	886.6	878.5	879.4
35°	868.5	861.2	853.0	851.2	852.1
37.5°	843.9	837.6	828.5	825.8	826.7
40°	807.6	806.7	803.1	792.2	794.0
42.5°	779.4	774.0	764.9	760.4	763.1
45°	754.9	745.8	733.1	731.3	730.4
47.5°	714.0	712.2	704.0	694.0	697.7
50°	678.6	675.0	661.3	655.9	662.2
52.5°	648.6	639.5	623.2	622.3	623.2
55°	604.1	599.6	588.7	580.5	584.1
57.5°	560.5	556.9	541.4	538.7	543.2
60°	522.3	516.0	497.8	496.9	501.5
62.5°	476.9	472.4	456.0	456.0	460.6
65°	432.4	424.2	407.0	409.7	411.5
67.5°	387.0	377.0	361.6	358.8	353.4
70°	339.8	329.8	320.7	303.4	294.3
72.5°	288.0	280.7	270.7	244.4	235.3
75°	238.9	231.6	215.3	192.6	178.1
77.5°	187.1	184.4	165.3	156.2	159.9
80°	139.9	139.0	124.5	136.3	140.8
82.5°	95.4	91.8	100.8	106.3	106.3
85°	56.3	58.1	67.2	68.1	68.1
87.5°	22.7	26.3	30.9	32.7	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)