

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: P392901

Luminaire Tested: **12EN-LD2-35-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392901
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 (4000K)
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: 3263.3 lumens
Efficiency: N/A
Efficacy: 106.6 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

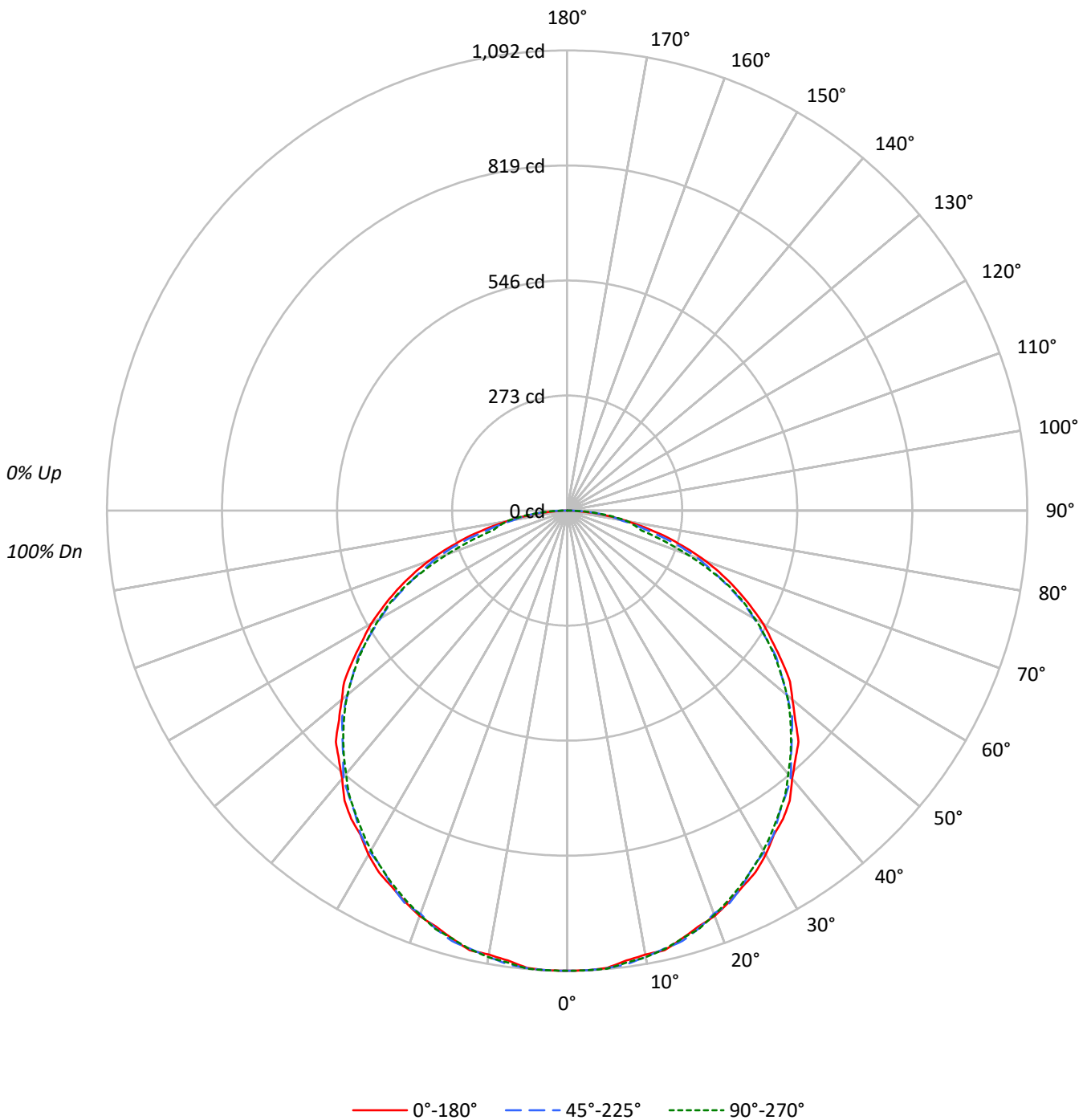
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5877	5877	5877
5°	5884	5889	5895
10°	5845	5876	5881
15°	5860	5892	5860
20°	5864	5832	5848
25°	5847	5836	5814
30°	5858	5817	5788
35°	5867	5763	5757
40°	5835	5802	5736
45°	5909	5738	5717
50°	5843	5694	5702
55°	5829	5680	5636
60°	5781	5510	5550
65°	5663	5330	5389
70°	5498	5190	4763
75°	5109	4604	3807
80°	4460	3967	4488
85°	3575	4267	4329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	3.2
10°-20°	297.4	9.1
20°-30°	452.8	13.9
30°-40°	552.3	16.9
40°-50°	584.5	17.9
50°-60°	541.4	16.6
60°-70°	421.8	12.9
70°-80°	236.6	7.2
80°-90°	73.0	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°	853.7	26.2
0°-40°	1406.0	43.1
0°-60°	2532.0	77.6
0°-90°	3263.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3263.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1089	1090	1090	1092	1091	103
15°	1052	1054	1058	1054	1052	297
25°	985	983	983	976	979	455
35°	893	886	877	875	876	558
45°	776	767	754	752	751	594
55°	621	616	605	597	601	555
65°	445	436	418	421	423	440
75°	246	238	221	198	183	259
85°	58	60	69	70	70	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1092.0	1092.0	1092.0	1092.0	1092.0
2.5°	1092.0	1090.1	1092.0	1091.1	1092.0
5°	1089.2	1090.1	1090.1	1092.0	1091.1
7.5°	1077.1	1081.7	1085.5	1084.5	1081.7
10°	1069.6	1074.3	1075.2	1073.3	1076.1
12.5°	1068.7	1069.6	1064.9	1067.7	1065.9
15°	1051.8	1053.7	1057.5	1053.7	1051.8
17.5°	1035.0	1038.8	1039.7	1036.9	1040.6
20°	1023.8	1026.6	1018.2	1022.0	1021.0
22.5°	1005.1	1006.1	1007.9	1001.4	1000.5
25°	984.6	982.7	982.7	976.2	979.0
27.5°	967.8	961.2	953.8	957.5	955.6
30°	942.6	941.6	936.0	932.3	931.3
32.5°	912.7	913.6	911.7	903.3	904.3
35°	893.0	885.6	877.2	875.3	876.2
37.5°	867.8	861.3	851.9	849.1	850.1
40°	830.5	829.5	825.8	814.6	816.4
42.5°	801.5	795.9	786.5	781.9	784.7
45°	776.3	766.9	753.9	752.0	751.1
47.5°	734.2	732.4	724.0	713.7	717.4
50°	697.8	694.1	680.1	674.5	681.0
52.5°	667.0	657.6	640.8	639.9	640.8
55°	621.2	616.5	605.3	596.9	600.7
57.5°	576.4	572.6	556.8	553.9	558.6
60°	537.1	530.6	511.9	511.0	515.6
62.5°	490.4	485.8	468.9	468.9	473.6
65°	444.7	436.2	418.5	421.3	423.2
67.5°	397.9	387.7	371.8	369.0	363.4
70°	349.4	339.1	329.8	312.0	302.7
72.5°	296.1	288.7	278.4	251.3	241.9
75°	245.7	238.2	221.4	198.0	183.1
77.5°	192.4	189.6	170.0	160.7	164.4
80°	143.9	142.9	128.0	140.1	144.8
82.5°	98.1	94.3	103.7	109.3	109.3
85°	57.9	59.8	69.1	70.1	70.1
87.5°	23.4	27.1	31.8	33.6	33.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)