

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: P392856

Luminaire Tested: **12EN-LD2-27-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-37)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-27-UNV-L92765-W2A-1-U (5700K)
Description: 1X2 ENCOUNTER, 2700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2352.4 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

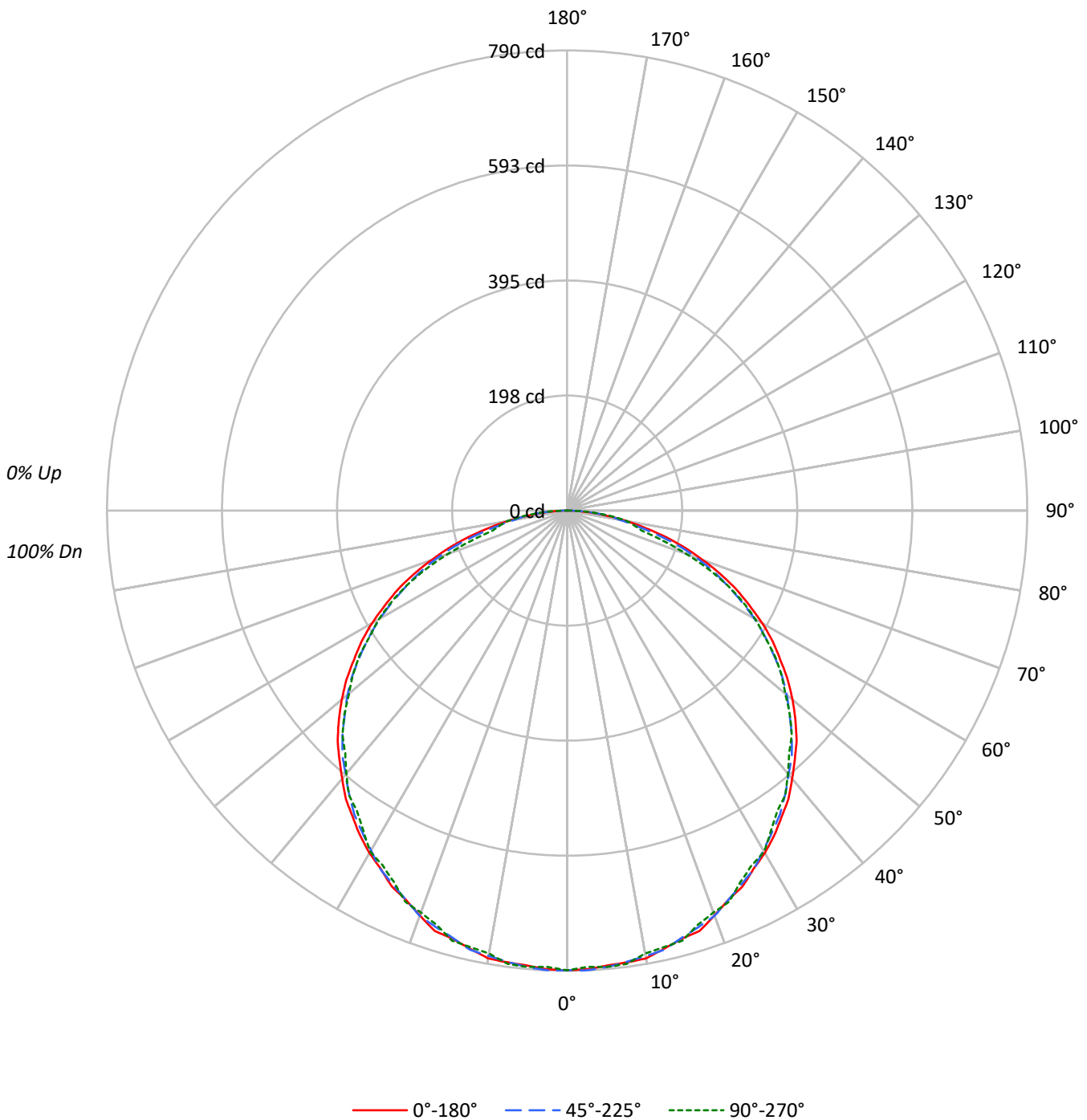
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	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°	4247	4247	4247
5°	4236	4249	4249
10°	4266	4242	4219
15°	4240	4230	4259
20°	4235	4240	4206
25°	4229	4203	4178
30°	4218	4186	4202
35°	4217	4184	4133
40°	4221	4155	4143
45°	4241	4150	4150
50°	4228	4120	4092
55°	4192	4064	4087
60°	4165	3998	4017
65°	4088	3859	3869
70°	3891	3717	3434
75°	3631	3310	2741
80°	3211	2839	3236
85°	2538	3013	3118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	3.2
10°-20°	214.7	9.1
20°-30°	326.7	13.9
30°-40°	398.2	16.9
40°-50°	421.9	17.9
50°-60°	390.7	16.6
60°-70°	303.7	12.9
70°-80°	169.5	7.2
80°-90°	52.4	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°	616.1	26.2
0°-40°	1014.3	43.1
0°-60°	1826.9	77.7
0°-90°	2352.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2352.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	784	786	786	786	786	75
15°	761	760	759	758	764	215
25°	712	710	708	707	704	328
35°	642	639	637	633	629	402
45°	557	552	545	540	545	429
55°	447	445	433	430	436	400
65°	321	314	303	304	304	316
75°	175	170	159	143	132	184
85°	41	42	49	50	50	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	789.1	789.1	789.1	789.1	789.1
2.5°	788.3	787.4	790.0	788.3	784.0
5°	784.0	786.5	786.5	786.5	786.5
7.5°	782.3	780.6	781.4	782.3	784.8
10°	780.6	775.4	776.3	775.4	772.0
12.5°	770.3	770.3	772.0	770.3	767.7
15°	760.9	760.0	759.2	758.3	764.3
17.5°	756.6	749.7	749.7	750.6	745.5
20°	739.5	739.5	740.3	737.8	734.3
22.5°	723.2	725.8	723.2	719.8	726.6
25°	712.1	710.4	707.8	706.9	703.5
27.5°	693.3	695.0	694.1	690.7	686.4
30°	678.7	677.0	673.6	669.3	676.1
32.5°	661.6	659.0	654.7	652.2	651.3
35°	641.9	639.3	636.8	633.3	629.1
37.5°	623.9	619.6	614.5	609.4	615.4
40°	600.8	599.1	591.4	588.0	589.7
42.5°	578.6	576.9	570.9	566.6	564.0
45°	557.2	552.0	545.2	540.1	545.2
47.5°	531.5	528.1	517.8	516.1	518.7
50°	505.0	500.7	492.1	489.6	488.7
52.5°	477.6	474.2	464.7	459.6	463.9
55°	446.8	445.1	433.1	430.5	435.6
57.5°	418.5	413.4	403.1	400.5	401.4
60°	386.9	382.6	371.4	368.0	373.2
62.5°	352.6	348.3	336.4	335.5	340.6
65°	321.0	314.1	303.0	303.8	303.8
67.5°	285.0	279.9	270.5	266.2	261.9
70°	247.3	243.9	236.2	222.5	218.2
72.5°	211.4	207.1	200.3	177.2	172.9
75°	174.6	170.3	159.2	142.9	131.8
77.5°	137.8	136.9	121.5	115.5	118.1
80°	103.6	102.7	91.6	101.0	104.4
82.5°	70.2	68.5	74.5	79.6	78.7
85°	41.1	41.9	48.8	50.5	50.5
87.5°	16.3	18.8	22.3	24.8	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)