

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: P392883

Luminaire Tested: **12EN-LD2-31-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-38)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-31-UNV-L92765-W2A-1-U (3000K)
Description: 1X2 ENCOUNTER, 3100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2420.0 lumens
Efficiency: N/A
Efficacy: 90.6 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

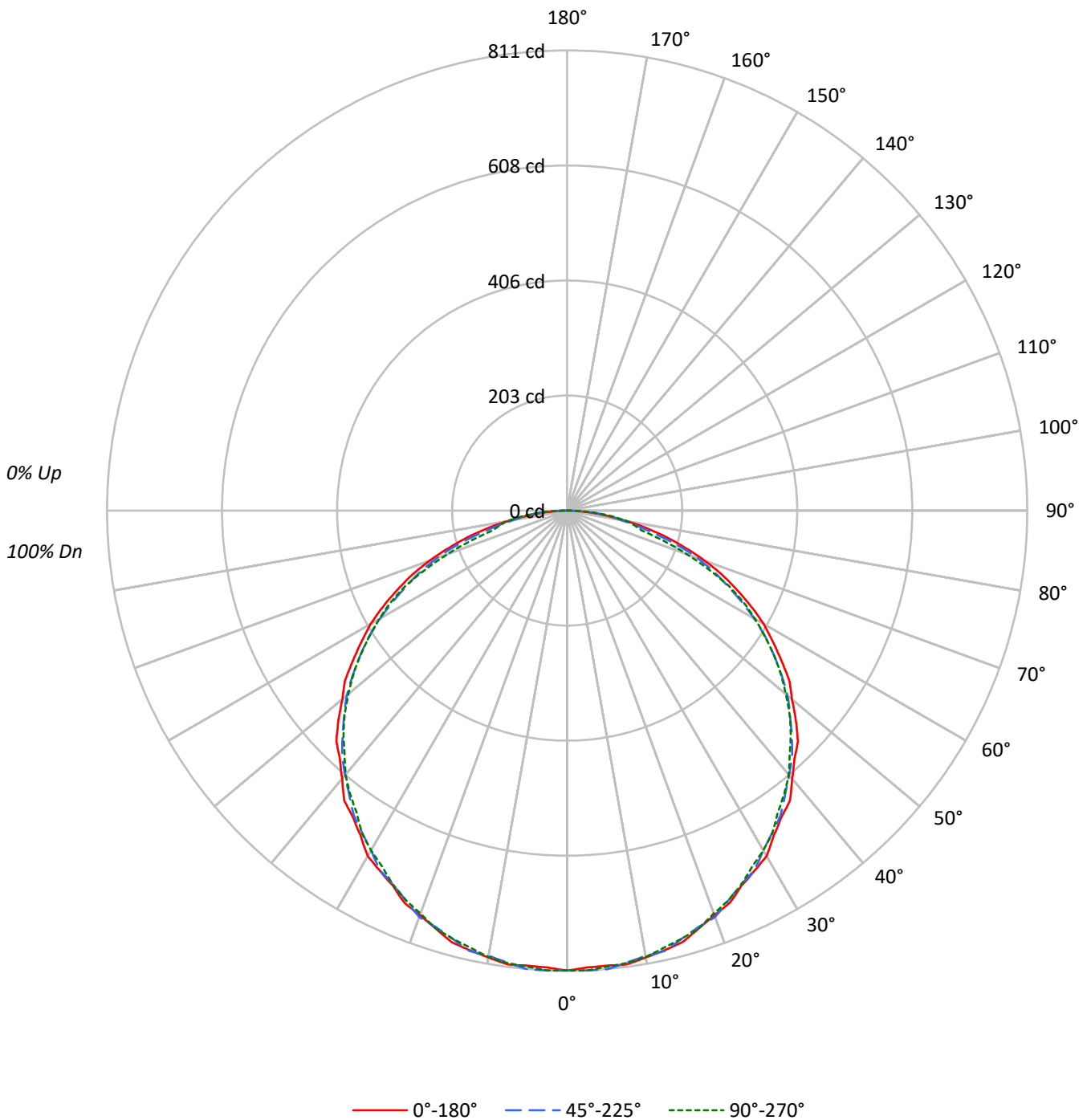
Input Watts (W): 26.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4362	4362	4362
5°	4350	4383	4358
10°	4370	4353	4366
15°	4387	4352	4352
20°	4345	4367	4328
25°	4326	4312	4317
30°	4368	4296	4296
35°	4328	4308	4257
40°	4335	4275	4269
45°	4378	4260	4243
50°	4330	4246	4213
55°	4322	4176	4176
60°	4308	4100	4116
65°	4200	3953	4003
70°	4057	3838	3520
75°	3782	3412	2818
80°	3288	2951	3335
85°	2581	3205	3248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	3.2
10°-20°	220.9	9.1
20°-30°	336.0	13.9
30°-40°	409.6	16.9
40°-50°	433.6	17.9
50°-60°	401.5	16.6
60°-70°	312.4	12.9
70°-80°	174.9	7.2
80°-90°	54.2	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°	633.7	26.2
0°-40°	1043.3	43.1
0°-60°	1878.4	77.6
0°-90°	2420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2420.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	805	810	811	812	807	77
15°	787	783	781	780	781	221
25°	728	727	726	725	727	337
35°	659	659	656	652	648	414
45°	575	571	560	557	557	441
55°	461	457	445	443	445	412
65°	330	322	310	311	314	327
75°	182	176	164	147	136	191
85°	42	43	52	52	53	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	810.5	810.5	810.5	810.5	810.5
2.5°	805.9	809.0	811.3	811.3	811.3
5°	805.1	810.5	811.3	812.1	806.7
7.5°	806.7	802.8	803.6	802.0	804.3
10°	799.7	795.8	796.6	798.2	798.9
12.5°	793.5	794.3	795.1	794.3	788.9
15°	787.3	782.7	781.1	779.6	781.1
17.5°	771.8	768.7	769.5	770.3	771.8
20°	758.7	762.5	762.5	761.0	755.6
22.5°	748.6	747.8	743.2	740.9	743.2
25°	728.5	726.9	726.2	725.4	726.9
27.5°	715.3	715.3	714.5	711.4	706.8
30°	702.9	699.1	691.3	689.8	691.3
32.5°	678.2	675.1	672.7	669.6	673.5
35°	658.8	658.8	655.7	651.8	648.0
37.5°	644.9	640.2	630.9	627.8	628.6
40°	617.0	613.9	608.5	604.6	607.7
42.5°	593.0	592.2	586.8	582.2	580.6
45°	575.2	570.6	559.7	556.6	557.4
47.5°	546.6	541.9	532.6	529.5	531.8
50°	517.1	514.0	507.1	502.4	503.2
52.5°	493.9	487.7	476.1	474.6	475.3
55°	460.6	456.8	445.1	442.8	445.1
57.5°	429.7	425.0	414.2	409.5	413.4
60°	400.2	393.3	380.9	379.3	382.4
62.5°	365.4	360.0	345.3	346.0	350.7
65°	329.8	322.0	310.4	311.2	314.3
67.5°	295.7	287.2	277.9	273.3	269.4
70°	257.8	251.6	243.9	229.1	223.7
72.5°	218.3	212.9	205.9	183.5	179.6
75°	181.9	175.7	164.1	147.1	135.5
77.5°	143.2	140.1	126.2	118.4	122.3
80°	106.1	106.1	95.2	103.7	107.6
82.5°	71.2	70.4	78.2	82.1	81.3
85°	41.8	43.4	51.9	51.9	52.6
87.5°	17.8	20.1	24.0	24.8	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)