

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: P393075

Luminaire Tested: **14EN-LD2-33-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-52)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-33-UNV-L92765-W2A-1-U (3000K)
Description: 1X4 ENCOUNTER, 3300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2558.5 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

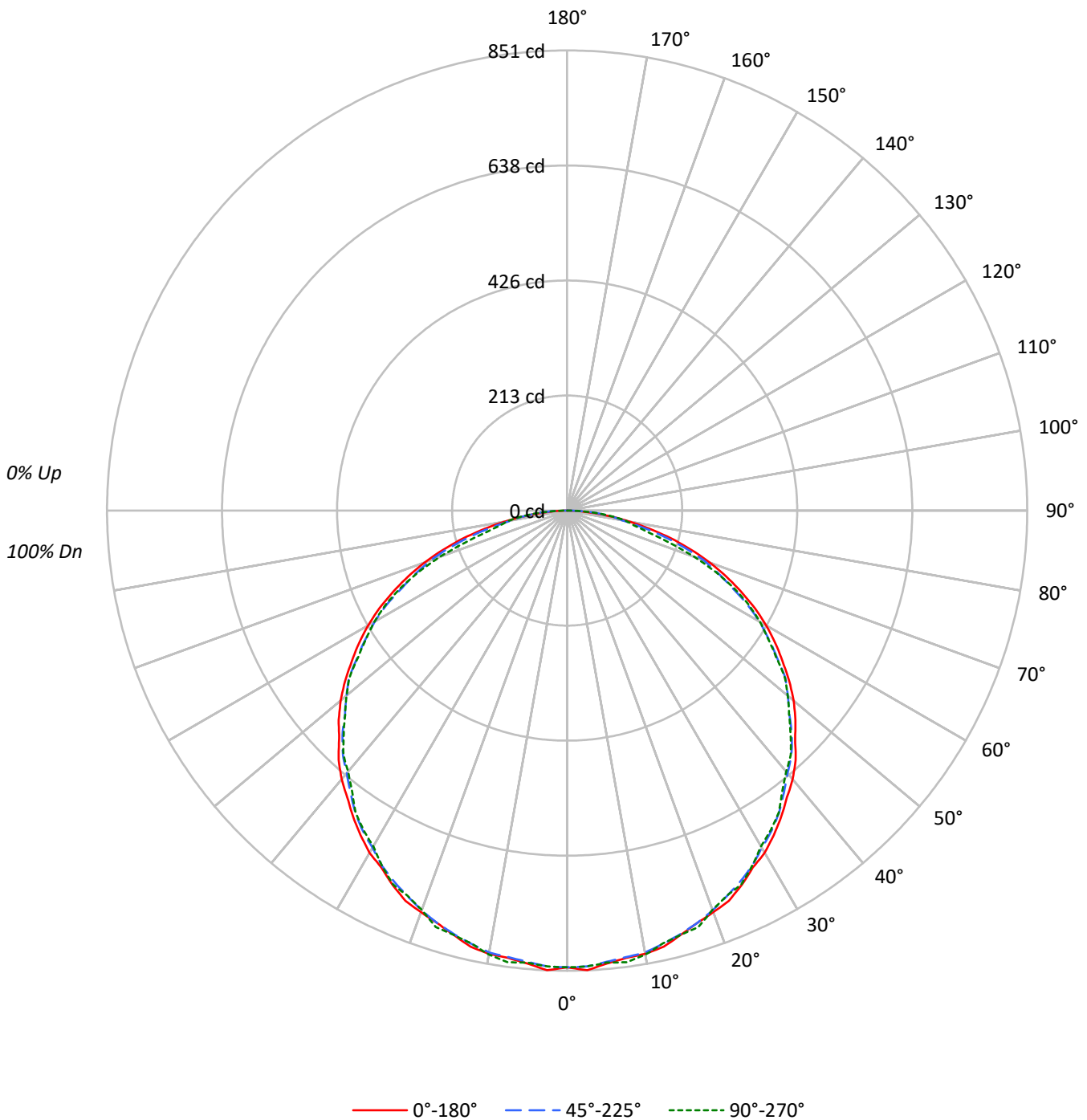
Input Watts (W): 30.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2273	2273	2273
5°	2271	2263	2267
10°	2274	2268	2278
15°	2262	2258	2262
20°	2263	2252	2250
25°	2269	2248	2264
30°	2271	2237	2228
35°	2268	2243	2240
40°	2279	2227	2214
45°	2269	2236	2224
50°	2288	2230	2230
55°	2281	2223	2212
60°	2287	2213	2217
65°	2258	2139	2174
70°	2205	2113	1973
75°	2069	1923	1609
80°	1812	1607	1715
85°	1340	1720	1720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	3.1
10°-20°	229.5	9.0
20°-30°	350.0	13.7
30°-40°	427.3	16.7
40°-50°	454.7	17.8
50°-60°	426.9	16.7
60°-70°	339.2	13.3
70°-80°	192.8	7.5
80°-90°	58.1	2.3
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°	659.4	25.8
0°-40°	1086.7	42.5
0°-60°	1968.4	76.9
0°-90°	2558.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2558.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	845	845	845	845	845	
5°	841	841	838	842	839	80
15°	812	815	810	814	812	230
25°	764	762	757	758	762	352
35°	690	687	683	680	682	432
45°	596	595	588	586	584	462
55°	486	483	474	473	472	436
65°	355	349	336	341	341	351
75°	199	194	185	163	155	209
85°	43	47	56	54	56	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	844.6	844.6	844.6	844.6	844.6
2.5°	850.8	844.6	843.8	844.6	843.8
5°	840.7	840.7	837.6	842.3	839.2
7.5°	834.5	837.6	833.0	837.6	842.3
10°	832.2	831.4	829.9	829.1	833.8
12.5°	826.0	822.2	820.6	822.9	819.8
15°	812.1	815.2	810.5	813.6	812.1
17.5°	799.7	803.6	799.7	801.2	807.4
20°	790.4	791.2	786.5	787.3	785.8
22.5°	781.1	774.9	771.8	772.6	771.1
25°	764.1	762.5	757.1	757.9	762.5
27.5°	744.0	745.5	740.9	740.1	740.9
30°	730.8	726.9	720.0	720.7	716.9
32.5°	711.4	706.8	702.9	699.1	700.6
35°	690.5	686.7	682.8	679.7	682.0
37.5°	668.1	665.8	658.0	657.3	653.4
40°	648.7	641.8	634.0	631.7	630.2
42.5°	625.5	621.6	613.9	610.0	612.4
45°	596.1	595.3	587.6	586.0	584.5
47.5°	572.9	567.5	557.4	558.2	556.6
50°	546.6	541.9	532.6	529.5	532.6
52.5°	517.9	515.6	508.6	505.5	507.8
55°	486.2	483.1	473.8	473.0	471.5
57.5°	456.8	452.1	442.0	438.9	440.5
60°	425.0	420.4	411.1	406.4	411.9
62.5°	391.7	385.5	375.5	376.2	379.3
65°	354.6	349.1	336.0	341.4	341.4
67.5°	318.2	312.8	301.9	301.9	297.3
70°	280.2	273.3	268.6	257.8	250.8
72.5°	240.0	233.0	227.6	209.0	199.0
75°	199.0	193.5	185.0	162.6	154.8
77.5°	156.4	154.8	141.7	124.6	127.0
80°	116.9	119.2	103.7	109.9	110.7
82.5°	79.7	79.7	82.1	86.7	86.7
85°	43.4	47.2	55.7	54.2	55.7
87.5°	16.3	23.2	25.5	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)