

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: P393123

Luminaire Tested: **14EN-LD2-43-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-54)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-43-UNV-L82765-W2A-1-U (3000K)
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3900.7 lumens
Efficiency: N/A
Efficacy: 93.5 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

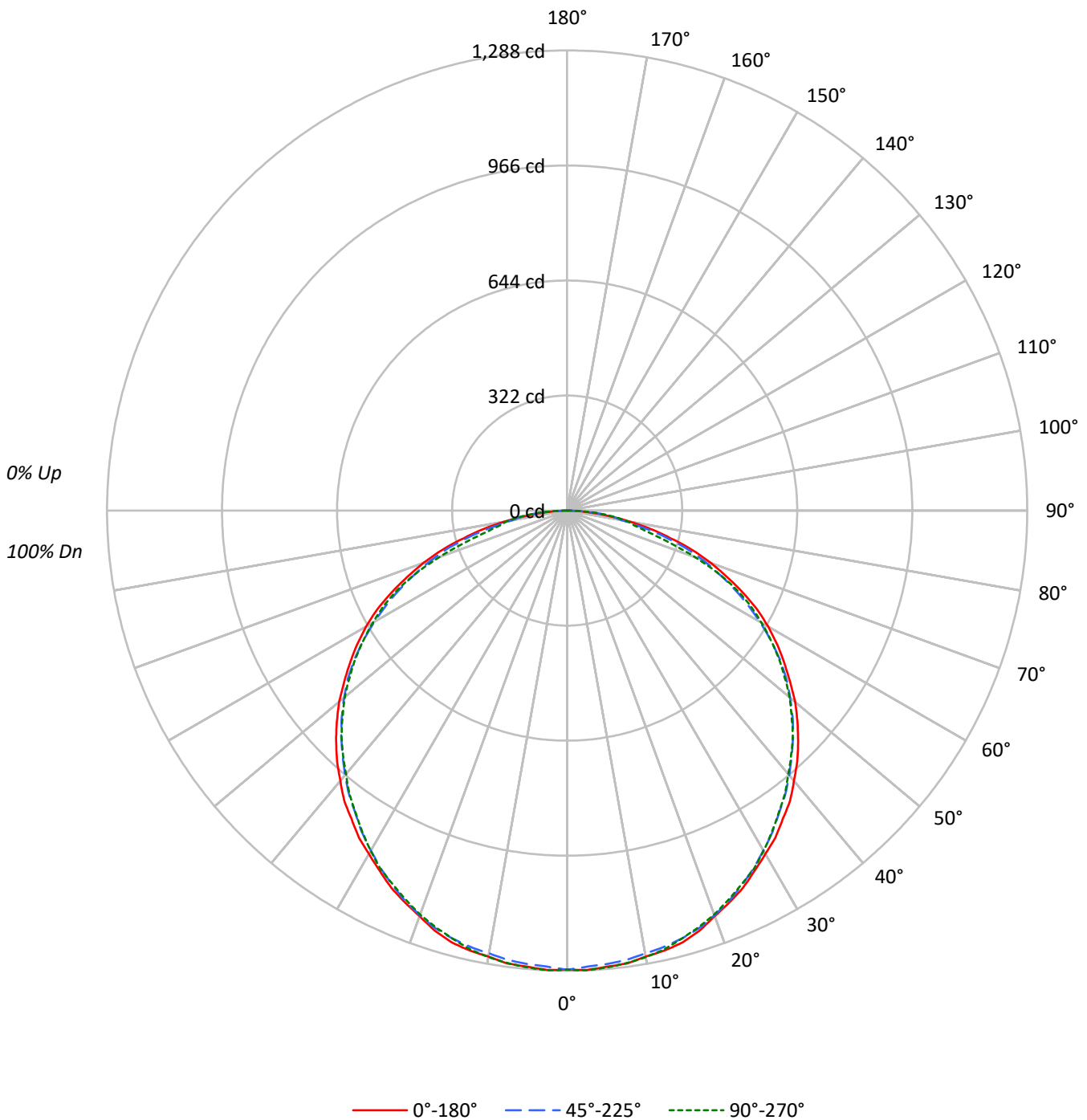
Input Watts (W): 41.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	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	35	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°	3458	3458	3458
5°	3461	3441	3466
10°	3464	3439	3469
15°	3485	3455	3455
20°	3459	3451	3446
25°	3459	3434	3429
30°	3448	3414	3417
35°	3459	3396	3393
40°	3470	3396	3383
45°	3480	3403	3400
50°	3486	3410	3402
55°	3477	3413	3395
60°	3495	3357	3381
65°	3452	3270	3335
70°	3363	3175	2995
75°	3118	2928	2441
80°	2757	2388	2630
85°	2010	2606	2661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	3.1
10°-20°	350.6	9.0
20°-30°	533.6	13.7
30°-40°	651.3	16.7
40°-50°	694.0	17.8
50°-60°	650.6	16.7
60°-70°	516.8	13.2
70°-80°	293.8	7.5
80°-90°	88.2	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°	1006.0	25.8
0°-40°	1657.3	42.5
0°-60°	3001.9	77.0
0°-90°	3900.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3900.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1285	1285	1285	1285	1285	
5°	1281	1279	1274	1284	1283	122
15°	1251	1247	1240	1238	1240	352
25°	1165	1159	1157	1153	1155	536
35°	1053	1044	1034	1036	1033	660
45°	914	910	894	892	893	705
55°	741	735	727	718	724	664
65°	542	533	514	520	524	536
75°	300	297	282	250	235	320
85°	65	72	84	84	86	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1286.9	1283.2	1277.7	1289.6	1287.8
5°	1281.4	1278.6	1274.0	1284.1	1283.2
7.5°	1278.6	1273.1	1268.5	1279.5	1277.7
10°	1267.6	1268.5	1258.4	1269.4	1269.4
12.5°	1261.2	1259.3	1251.1	1254.8	1257.5
15°	1251.1	1247.4	1240.1	1238.2	1240.1
17.5°	1232.7	1229.1	1226.3	1219.9	1222.7
20°	1208.0	1209.8	1205.2	1199.7	1203.4
22.5°	1186.9	1185.0	1183.2	1177.7	1179.5
25°	1164.9	1159.4	1156.6	1152.9	1154.8
27.5°	1136.4	1132.8	1129.1	1127.3	1130.9
30°	1109.8	1104.3	1098.8	1097.0	1099.7
32.5°	1085.1	1075.0	1068.6	1069.5	1066.7
35°	1053.0	1043.8	1033.7	1036.5	1032.8
37.5°	1024.5	1013.5	1002.5	1005.3	1000.7
40°	987.8	981.4	966.7	968.6	963.1
42.5°	953.0	949.3	930.1	931.0	928.2
45°	914.5	909.9	894.3	891.5	893.4
47.5°	874.1	869.5	855.8	849.3	852.1
50°	832.8	827.3	814.5	809.0	812.7
52.5°	786.1	783.3	773.2	765.0	767.7
55°	741.1	734.7	727.4	718.2	723.7
57.5°	697.1	689.7	676.0	671.4	676.9
60°	649.4	637.5	623.7	620.0	628.3
62.5°	599.9	586.1	568.7	569.6	579.7
65°	542.1	532.9	513.6	520.1	523.7
67.5°	483.4	476.0	457.7	466.9	456.8
70°	427.4	418.3	403.6	391.7	380.6
72.5°	367.8	356.8	347.6	316.4	303.6
75°	299.9	297.2	281.6	250.4	234.8
77.5°	242.1	235.7	214.6	190.8	192.6
80°	177.9	182.5	154.1	165.1	169.7
82.5°	117.4	120.2	127.5	133.0	132.1
85°	65.1	71.5	84.4	84.4	86.2
87.5°	24.8	32.1	36.7	37.6	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)