

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: P393157

Luminaire Tested: **14EN-LD2-47-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-55)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-47-UNV-L82765-W2A-1-U (4000K)
Description: 1X4 ENCOUNTER, 4700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4407.1 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

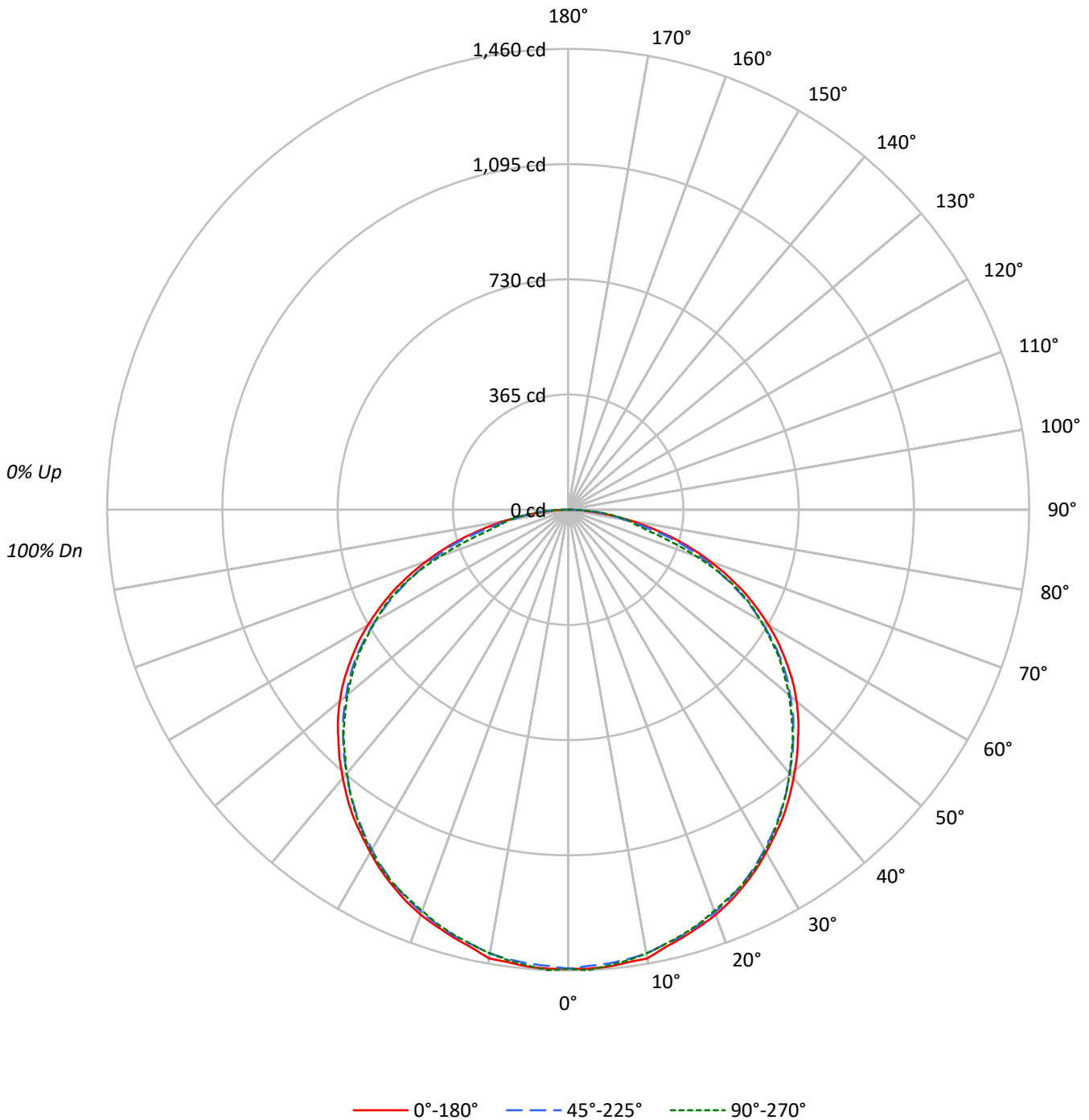
Input Watts (W): 46.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3914	3914	3914
5°	3926	3899	3916
10°	3944	3900	3900
15°	3909	3893	3886
20°	3911	3887	3873
25°	3905	3880	3886
30°	3895	3863	3878
35°	3900	3848	3857
40°	3899	3829	3833
45°	3918	3836	3829
50°	3954	3844	3821
55°	3957	3852	3822
60°	3947	3791	3791
65°	3896	3699	3753
70°	3763	3594	3396
75°	3545	3322	2787
80°	3141	2751	2982
85°	2306	2970	2970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	3.1
10°-20°	395.1	9.0
20°-30°	603.8	13.7
30°-40°	736.0	16.7
40°-50°	782.1	17.7
50°-60°	735.9	16.7
60°-70°	584.1	13.3
70°-80°	332.1	7.5
80°-90°	100.3	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°	1136.6	25.8
0°-40°	1872.6	42.5
0°-60°	3390.6	76.9
0°-90°	4407.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4407.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1454	1452	1443	1445	1450	138
15°	1403	1402	1398	1396	1395	397
25°	1315	1312	1307	1310	1309	606
35°	1187	1185	1171	1169	1174	743
45°	1029	1022	1008	1005	1006	795
55°	844	835	821	816	815	754
65°	612	602	581	588	589	603
75°	341	334	320	282	268	359
85°	75	81	96	94	96	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1454.5	1454.5	1454.5	1454.5	1454.5
2.5°	1455.4	1456.3	1447.0	1452.6	1460.1
5°	1453.5	1451.7	1443.3	1445.1	1449.8
7.5°	1446.1	1444.2	1436.7	1436.7	1440.5
10°	1443.3	1433.9	1427.4	1425.5	1427.4
12.5°	1419.9	1419.9	1411.5	1412.4	1410.6
15°	1403.1	1402.2	1397.5	1395.6	1394.7
17.5°	1384.4	1382.5	1377.9	1381.6	1376.0
20°	1365.7	1362.9	1357.3	1360.1	1352.6
22.5°	1342.4	1337.7	1334.0	1338.6	1330.2
25°	1315.3	1312.5	1306.9	1309.7	1308.7
27.5°	1286.3	1284.5	1277.0	1277.0	1280.7
30°	1253.6	1252.7	1243.3	1244.3	1248.0
32.5°	1220.0	1218.1	1208.8	1206.0	1212.5
35°	1187.3	1185.4	1171.4	1168.6	1174.2
37.5°	1149.9	1147.1	1133.1	1128.4	1133.1
40°	1109.8	1107.9	1090.1	1086.4	1091.1
42.5°	1071.5	1064.9	1051.8	1046.2	1047.2
45°	1029.4	1022.0	1007.9	1005.1	1006.1
47.5°	989.3	979.0	965.9	963.1	958.4
50°	944.4	932.3	918.3	914.5	912.7
52.5°	896.8	883.7	872.5	865.0	863.2
55°	843.5	835.1	821.1	815.5	814.6
57.5°	791.2	780.9	765.1	759.5	758.5
60°	733.3	726.8	704.3	703.4	704.3
62.5°	673.5	664.2	645.5	647.4	653.0
65°	611.9	602.5	581.0	588.5	589.4
67.5°	545.5	538.1	516.6	521.3	515.6
70°	478.3	472.7	456.8	445.6	431.6
72.5°	411.0	402.6	392.3	359.6	347.5
75°	341.0	333.5	319.5	282.1	268.1
77.5°	269.0	267.2	241.0	215.8	218.6
80°	202.7	204.6	177.5	186.8	192.4
82.5°	134.5	135.5	142.9	151.3	147.6
85°	74.7	81.3	96.2	94.3	96.2
87.5°	27.1	41.1	42.0	44.8	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)