

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: P393160

Luminaire Tested: **14EN-LD2-47-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393160
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 (5700K)
Description: 1X4 ENCOUNTER, 4700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4547.2 lumens
Efficiency: N/A
Efficacy: 98.2 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

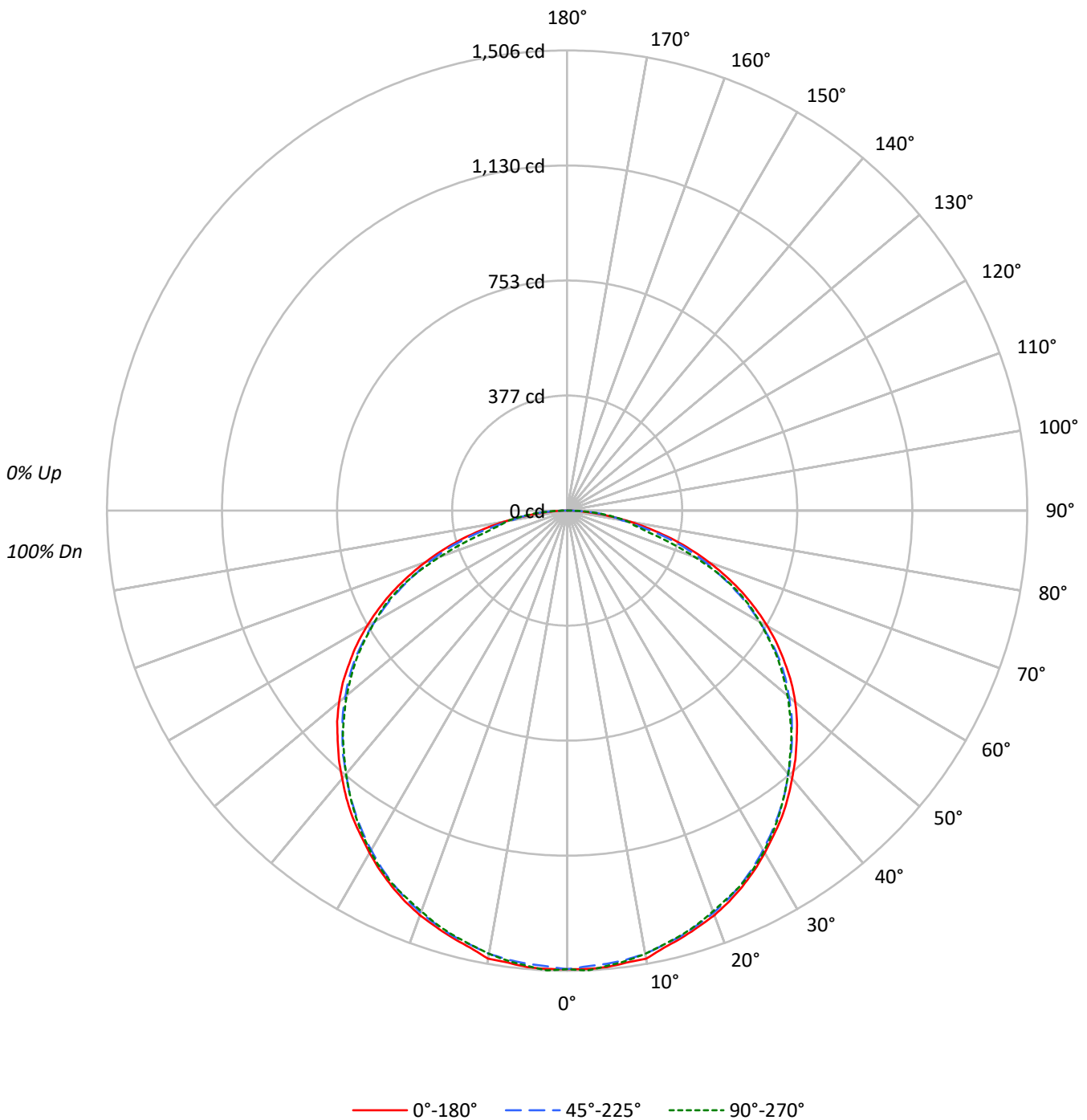
Input Watts (W): 46.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4038	4038	4038
5°	4051	4022	4041
10°	4069	4024	4024
15°	4033	4017	4009
20°	4035	4010	3997
25°	4029	4004	4009
30°	4019	3986	4001
35°	4024	3970	3980
40°	4022	3951	3954
45°	4042	3958	3950
50°	4079	3966	3942
55°	4083	3975	3943
60°	4072	3911	3911
65°	4020	3817	3873
70°	3883	3708	3504
75°	3658	3427	2876
80°	3240	2837	3076
85°	2381	3066	3066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	3.1
10°-20°	407.6	9.0
20°-30°	623.0	13.7
30°-40°	759.4	16.7
40°-50°	807.0	17.7
50°-60°	759.3	16.7
60°-70°	602.7	13.3
70°-80°	342.7	7.5
80°-90°	103.5	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°	1172.7	25.8
0°-40°	1932.1	42.5
0°-60°	3498.3	76.9
0°-90°	4547.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4547.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1500	1498	1489	1491	1496	143
15°	1448	1447	1442	1440	1439	409
25°	1357	1354	1348	1351	1350	626
35°	1225	1223	1209	1206	1212	766
45°	1062	1054	1040	1037	1038	821
55°	870	862	847	841	840	778
65°	631	622	600	607	608	622
75°	352	344	330	291	277	370
85°	77	84	99	97	99	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1500.7	1500.7	1500.7	1500.7	1500.7
2.5°	1501.6	1502.6	1493.0	1498.7	1506.4
5°	1499.7	1497.8	1489.1	1491.0	1495.8
7.5°	1492.0	1490.1	1482.4	1482.4	1486.2
10°	1489.1	1479.5	1472.7	1470.8	1472.7
12.5°	1465.0	1465.0	1456.3	1457.3	1455.4
15°	1447.7	1446.7	1441.9	1439.9	1439.0
17.5°	1428.4	1426.5	1421.6	1425.5	1419.7
20°	1409.1	1406.2	1400.4	1403.3	1395.6
22.5°	1385.0	1380.2	1376.3	1381.2	1372.5
25°	1357.1	1354.2	1348.4	1351.3	1350.3
27.5°	1327.2	1325.2	1317.5	1317.5	1321.4
30°	1293.4	1292.5	1282.8	1283.8	1287.7
32.5°	1258.7	1256.8	1247.2	1244.3	1251.0
35°	1225.0	1223.1	1208.6	1205.7	1211.5
37.5°	1186.5	1183.6	1169.1	1164.3	1169.1
40°	1145.0	1143.1	1124.8	1120.9	1125.7
42.5°	1105.5	1098.8	1085.3	1079.5	1080.4
45°	1062.1	1054.4	1040.0	1037.1	1038.0
47.5°	1020.7	1010.1	996.6	993.7	988.9
50°	974.4	961.9	947.4	943.6	941.6
52.5°	925.3	911.8	900.2	892.5	890.6
55°	870.3	861.7	847.2	841.4	840.4
57.5°	816.4	805.8	789.4	783.6	782.6
60°	756.6	749.9	726.7	725.8	726.7
62.5°	694.9	685.3	666.0	667.9	673.7
65°	631.3	621.7	599.5	607.2	608.2
67.5°	562.9	555.2	533.0	537.8	532.0
70°	493.5	487.7	471.3	459.7	445.3
72.5°	424.1	415.4	404.8	371.1	358.5
75°	351.8	344.1	329.6	291.1	276.6
77.5°	277.6	275.7	248.7	222.6	225.5
80°	209.1	211.1	183.1	192.8	198.5
82.5°	138.8	139.8	147.5	156.1	152.3
85°	77.1	83.9	99.3	97.3	99.3
87.5°	28.0	42.4	43.4	46.3	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)