

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: P393159

Luminaire Tested: **14EN-LD2-47-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393159
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 (5000K)
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: 4530.4 lumens
Efficiency: N/A
Efficacy: 97.4 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

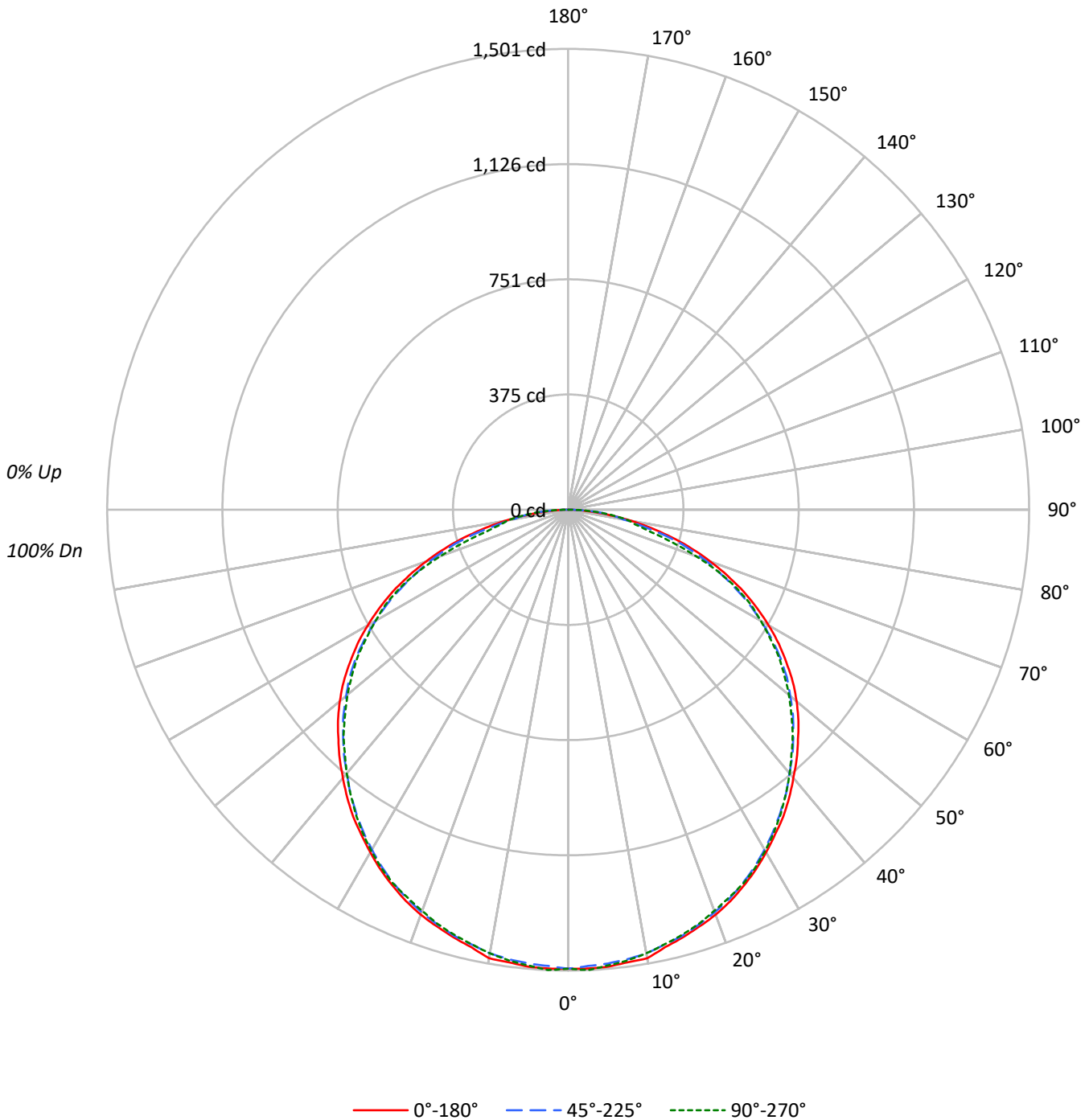
Input Watts (W): 46.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4023	4023	4023
5°	4036	4008	4026
10°	4054	4009	4009
15°	4018	4002	3994
20°	4020	3996	3982
25°	4015	3989	3994
30°	4004	3971	3986
35°	4009	3956	3965
40°	4007	3936	3940
45°	4027	3943	3936
50°	4064	3952	3928
55°	4068	3960	3929
60°	4057	3897	3897
65°	4005	3803	3858
70°	3869	3695	3490
75°	3644	3414	2865
80°	3230	2828	3065
85°	2371	3054	3054



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	3.1
10°-20°	406.1	9.0
20°-30°	620.7	13.7
30°-40°	756.6	16.7
40°-50°	804.0	17.7
50°-60°	756.5	16.7
60°-70°	600.4	13.3
70°-80°	341.4	7.5
80°-90°	103.1	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°	1168.3	25.8
0°-40°	1925.0	42.5
0°-60°	3485.4	76.9
0°-90°	4530.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4530.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1495	1495	1495	1495	1495	
5°	1494	1492	1484	1486	1490	142
15°	1442	1441	1437	1435	1434	408
25°	1352	1349	1343	1346	1345	623
35°	1220	1219	1204	1201	1207	763
45°	1058	1050	1036	1033	1034	818
55°	867	858	844	838	837	775
65°	629	619	597	605	606	620
75°	350	343	328	290	276	369
85°	77	84	99	97	99	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1495.1	1495.1	1495.1	1495.1	1495.1
2.5°	1496.1	1497.1	1487.5	1493.2	1500.9
5°	1494.2	1492.3	1483.6	1485.5	1490.3
7.5°	1486.5	1484.6	1476.9	1476.9	1480.7
10°	1483.6	1474.0	1467.3	1465.4	1467.3
12.5°	1459.6	1459.6	1451.0	1451.9	1450.0
15°	1442.3	1441.4	1436.6	1434.6	1433.7
17.5°	1423.1	1421.2	1416.4	1420.2	1414.5
20°	1403.9	1401.0	1395.3	1398.2	1390.5
22.5°	1379.9	1375.1	1371.3	1376.1	1367.4
25°	1352.1	1349.2	1343.4	1346.3	1345.3
27.5°	1322.3	1320.4	1312.7	1312.7	1316.5
30°	1288.7	1287.7	1278.1	1279.1	1282.9
32.5°	1254.1	1252.2	1242.6	1239.7	1246.4
35°	1220.5	1218.6	1204.2	1201.3	1207.1
37.5°	1182.1	1179.2	1164.8	1160.0	1164.8
40°	1140.8	1138.9	1120.6	1116.8	1121.6
42.5°	1101.4	1094.7	1081.3	1075.5	1076.5
45°	1058.2	1050.5	1036.1	1033.3	1034.2
47.5°	1016.9	1006.4	992.9	990.0	985.2
50°	970.8	958.4	943.9	940.1	938.2
52.5°	921.9	908.4	896.9	889.2	887.3
55°	867.1	858.5	844.1	838.3	837.4
57.5°	813.4	802.8	786.5	780.7	779.7
60°	753.8	747.1	724.0	723.1	724.0
62.5°	692.4	682.8	663.5	665.5	671.2
65°	629.0	619.4	597.3	605.0	605.9
67.5°	560.8	553.1	531.0	535.8	530.1
70°	491.7	485.9	469.6	458.1	443.6
72.5°	422.5	413.9	403.3	369.7	357.2
75°	350.5	342.8	328.4	290.0	275.6
77.5°	276.6	274.6	247.8	221.8	224.7
80°	208.4	210.3	182.5	192.1	197.8
82.5°	138.3	139.2	146.9	155.6	151.7
85°	76.8	83.5	98.9	97.0	98.9
87.5°	27.8	42.3	43.2	46.1	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)