

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: P393187

Luminaire Tested: **14EN-LD2-51-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-51-UNV-L82765-W2A-1-U (3000K)  
Description: 1X4 ENCOUNTER, 5100 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4661.2 lumens  
Efficiency: N/A  
Efficacy: 91.4 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

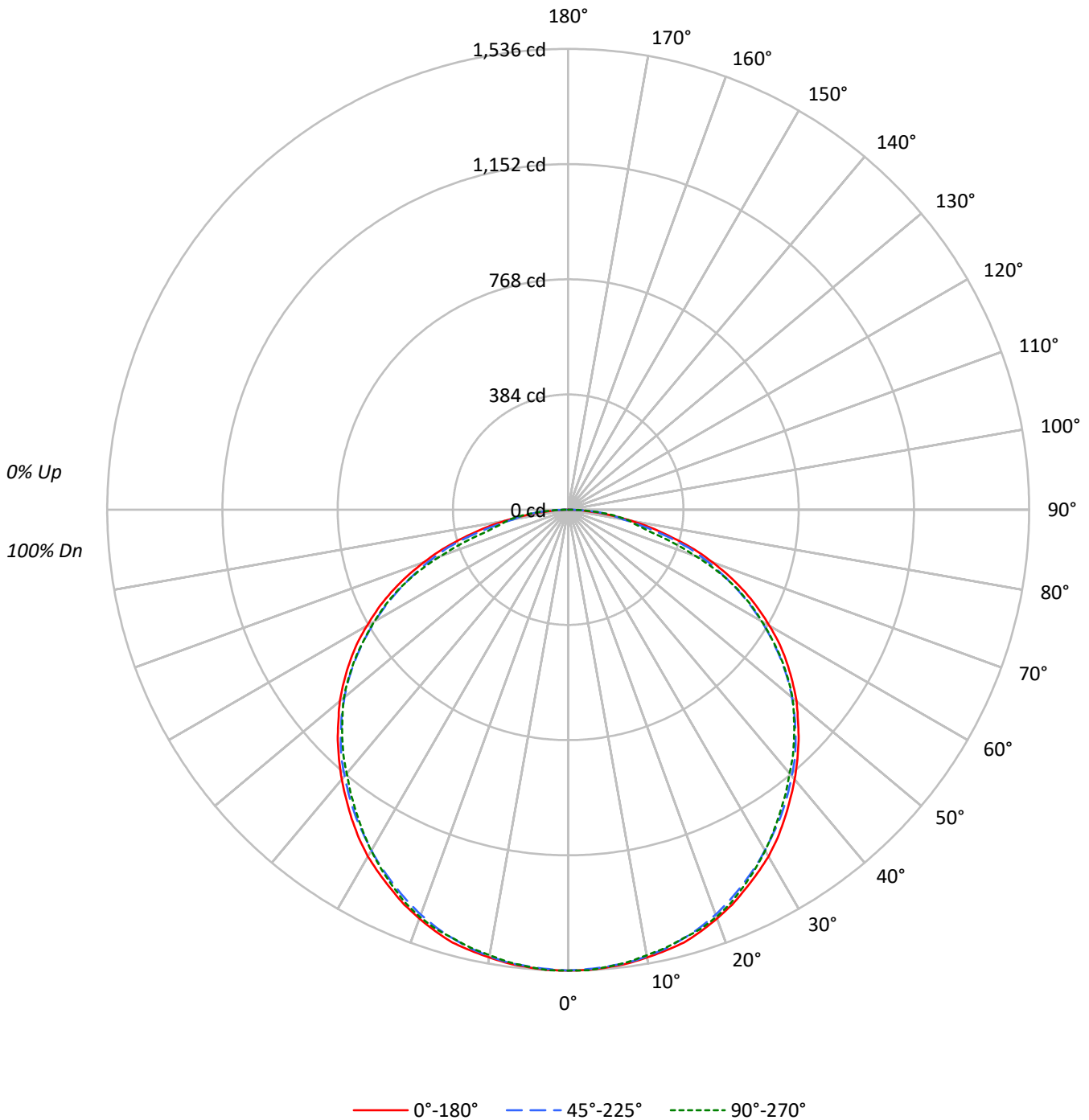
Input Watts (W): 51  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4134	4134	4134
5°	4135	4128	4130
10°	4140	4130	4120
15°	4160	4124	4122
20°	4153	4113	4137
25°	4145	4091	4110
30°	4147	4076	4078
35°	4131	4071	4044
40°	4124	4069	4031
45°	4133	4077	4053
50°	4158	4074	4086
55°	4174	4049	4067
60°	4166	4004	4013
65°	4141	3919	3942
70°	4027	3810	3565
75°	3748	3509	2918
80°	3312	2899	3169
85°	2377	3115	3171



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.8	3.1
10°-20°	418.8	9.0
20°-30°	637.2	13.7
30°-40°	778.4	16.7
40°-50°	829.1	17.8
50°-60°	777.6	16.7
60°-70°	617.2	13.2
70°-80°	351.3	7.5
80°-90°	105.8	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°	1201.8	25.8
0°-40°	1980.2	42.5
0°-60°	3586.9	77.0
0°-90°	4661.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4661.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1531	1535	1528	1538	1529	146
15°	1493	1487	1480	1482	1480	421
25°	1396	1383	1378	1375	1384	644
35°	1258	1251	1239	1237	1231	787
45°	1086	1084	1071	1064	1065	838
55°	890	881	863	859	867	795
65°	650	638	616	620	619	641
75°	360	351	338	299	281	383
85°	77	86	101	100	103	96
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1535.4	1541.8	1532.7	1540.0	1536.3
5°	1530.8	1535.4	1528.1	1538.2	1529.0
7.5°	1525.3	1528.1	1522.6	1531.8	1520.7
10°	1515.2	1517.1	1511.6	1518.9	1507.9
12.5°	1505.2	1502.4	1498.7	1501.5	1496.0
15°	1493.2	1486.8	1480.4	1482.2	1479.5
17.5°	1473.1	1464.8	1460.2	1458.4	1465.7
20°	1450.1	1440.0	1436.4	1434.5	1444.6
22.5°	1425.4	1412.5	1407.9	1406.1	1418.0
25°	1396.0	1383.2	1377.7	1374.9	1384.1
27.5°	1365.7	1352.0	1345.6	1343.7	1350.1
30°	1334.6	1319.0	1311.6	1310.7	1312.5
32.5°	1297.9	1285.9	1274.9	1275.9	1272.2
35°	1257.5	1251.1	1239.2	1237.3	1230.9
37.5°	1215.3	1215.3	1199.7	1202.5	1190.5
40°	1174.0	1175.0	1158.4	1159.4	1147.4
42.5°	1130.0	1132.8	1119.0	1111.7	1108.9
45°	1086.0	1084.2	1071.3	1064.0	1064.9
47.5°	1038.3	1038.3	1023.6	1017.2	1019.9
50°	993.3	989.7	973.2	967.7	975.9
52.5°	942.0	937.4	920.9	914.5	922.7
55°	889.7	881.4	863.1	859.4	866.8
57.5°	835.6	824.6	804.4	802.6	806.2
60°	774.1	765.0	743.9	740.2	745.7
62.5°	714.5	701.7	680.6	680.6	686.1
65°	650.3	637.5	615.5	620.0	619.1
67.5°	582.4	569.6	550.3	552.2	542.1
70°	511.8	497.1	484.3	466.9	453.1
72.5°	440.3	424.7	420.1	379.7	366.0
75°	360.5	351.3	337.5	299.0	280.7
77.5°	289.8	280.7	255.9	226.6	231.1
80°	213.7	215.5	187.1	198.1	204.5
82.5°	140.3	144.9	151.3	159.6	161.4
85°	77.0	86.2	100.9	100.0	102.7
87.5°	30.3	40.4	44.0	45.9	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)