

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: P183977

Luminaire Tested: **14SR-LD2-41-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P166748)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14SR-LD2-41-S-UNV-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3944.6 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.5 / 1.46
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

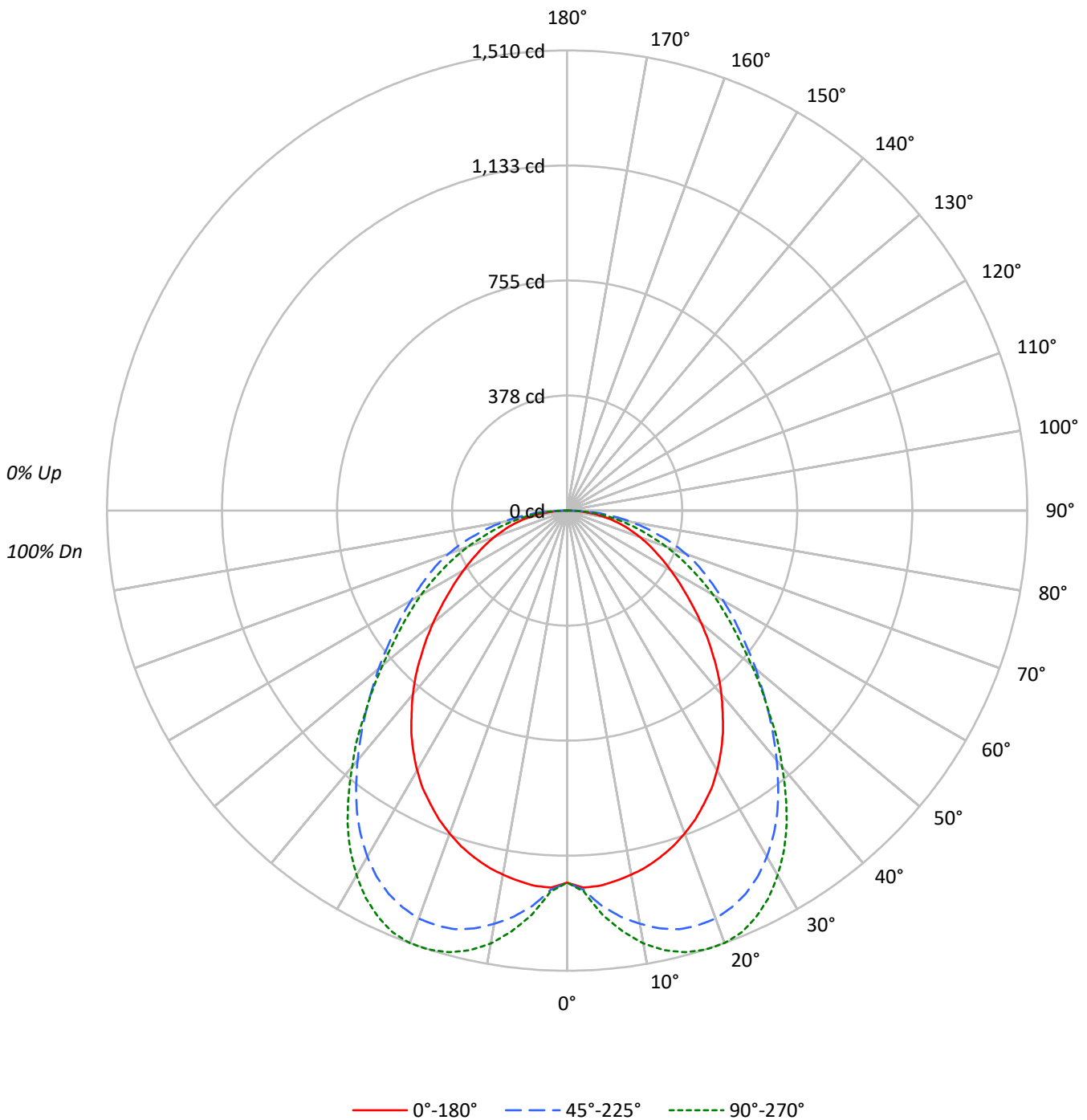
Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	65	88	78	70	64	75	68	63		72	67	62		70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54		64	58	53		62	57	52	50
5	76	63	54	48	74	62	54	47	60	52	47		58	51	46		56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3285	3285	3285
5°	3338	3515	3596
10°	3315	3762	3941
15°	3282	3962	4179
20°	3229	4080	4325
25°	3154	4118	4365
30°	3058	4075	4294
35°	2927	3952	4126
40°	2768	3758	3855
45°	2586	3554	3564
50°	2402	3383	3309
55°	2232	3247	3105
60°	2113	3183	2981
65°	2036	3205	2837
70°	2001	3248	2713
75°	1988	3245	2592
80°	1951	3276	2535
85°	1868	3418	2566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	3.2
10°-20°	390.9	9.9
20°-30°	613.3	15.5
30°-40°	715.1	18.1
40°-50°	680.4	17.2
50°-60°	574.4	14.6
60°-70°	447.5	11.3
70°-80°	291.8	7.4
80°-90°	106.2	2.7
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°	1129.1	28.6
0°-40°	1844.2	46.8
0°-60°	3099.0	78.6
0°-90°	3944.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3944.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1236	1241	1301	1331	1331	117
15°	1178	1294	1422	1485	1500	332
25°	1062	1236	1387	1452	1470	489
35°	891	1067	1203	1246	1256	556
45°	680	833	934	944	936	525
55°	476	624	692	672	662	428
65°	320	458	503	463	446	318
75°	191	307	312	262	249	201
85°	60	131	111	86	83	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.7	1220.7	1220.7	1220.7	1220.7
2.5°	1238.3	1223.3	1245.9	1261.0	1251.0
5°	1235.9	1240.9	1301.4	1331.4	1331.4
7.5°	1225.7	1261.0	1344.1	1384.3	1391.9
10°	1213.3	1278.6	1376.9	1429.7	1442.4
12.5°	1198.1	1291.2	1404.5	1462.4	1477.6
15°	1178.1	1293.8	1422.1	1485.0	1500.2
17.5°	1155.2	1288.8	1427.1	1495.2	1510.2
20°	1127.6	1278.6	1424.7	1492.6	1510.2
22.5°	1097.4	1261.0	1409.5	1477.6	1497.6
25°	1062.1	1235.9	1386.9	1452.4	1470.0
27.5°	1026.9	1200.7	1354.3	1414.5	1432.1
30°	984.3	1162.9	1311.4	1369.3	1381.9
32.5°	938.8	1117.6	1261.0	1313.8	1324.0
35°	891.0	1067.2	1203.1	1245.9	1256.0
37.5°	838.1	1009.3	1137.6	1175.5	1178.1
40°	787.9	951.4	1069.8	1100.0	1097.4
42.5°	735.0	893.6	1001.9	1021.9	1021.9
45°	679.5	833.1	933.8	943.8	936.4
47.5°	626.7	777.8	868.3	870.9	863.3
50°	573.8	722.4	808.1	800.5	790.5
52.5°	523.6	669.5	747.6	732.4	722.4
55°	475.7	624.3	692.1	672.1	661.9
57.5°	432.9	579.0	641.9	616.7	606.7
60°	392.6	536.2	591.4	563.8	553.8
62.5°	355.0	495.9	546.2	513.6	498.3
65°	319.7	458.1	503.3	463.1	445.5
67.5°	286.9	420.3	460.7	410.2	395.2
70°	254.3	382.6	412.8	360.0	344.8
72.5°	221.4	344.8	367.4	309.5	294.5
75°	191.2	307.1	312.1	261.7	249.3
77.5°	158.6	274.3	264.3	216.4	203.8
80°	125.9	231.7	211.4	171.2	163.6
82.5°	93.1	181.2	161.2	128.3	123.3
85°	60.5	130.9	110.7	85.5	83.1
87.5°	30.2	70.5	55.5	42.8	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)