

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: P183979

Luminaire Tested: **14SR-LD2-41-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183979  
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-L840-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4147.9 lumens  
Efficiency: N/A  
Efficacy: 122.0 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

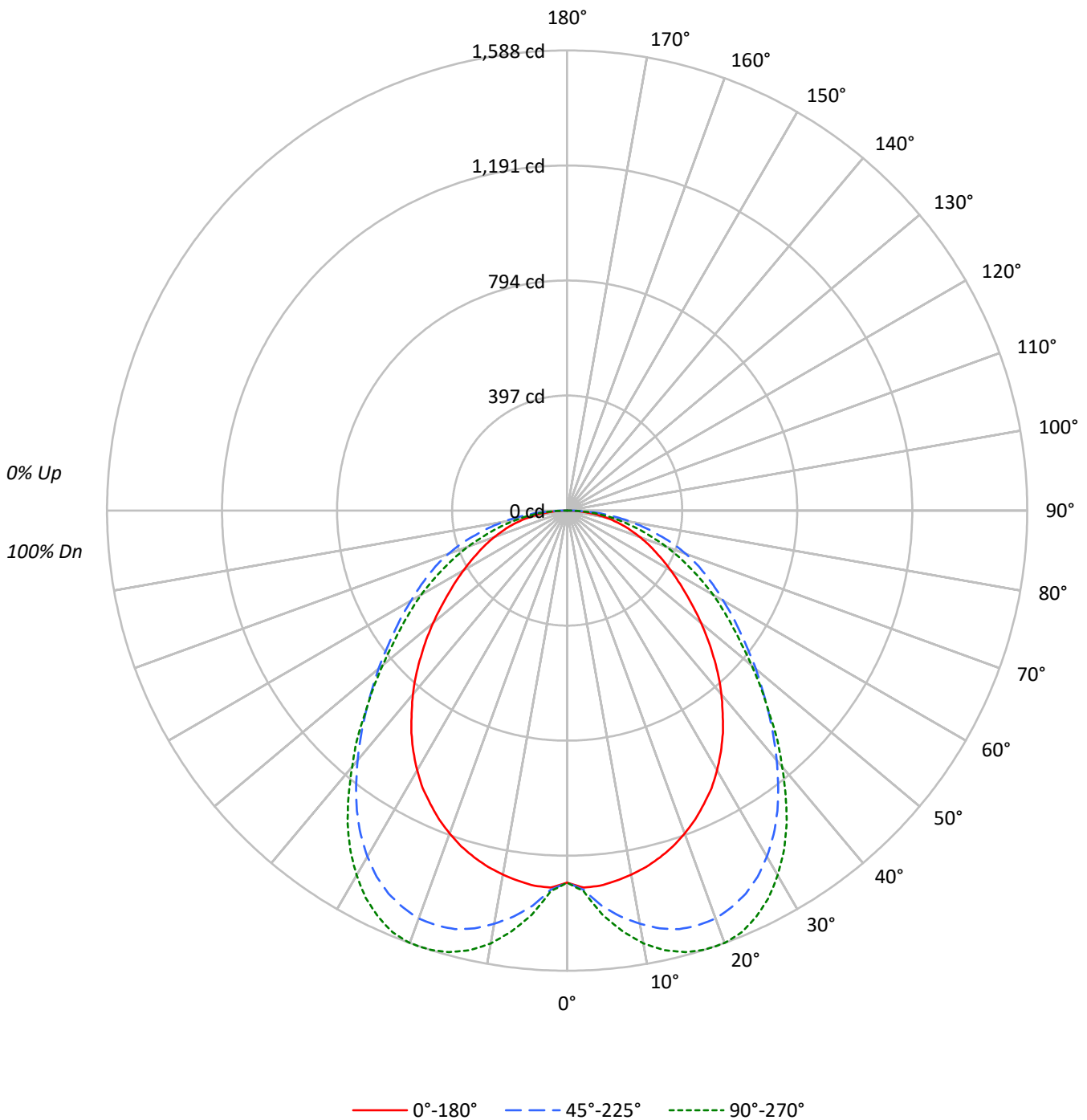
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3454	3454	3454
5°	3511	3697	3782
10°	3486	3956	4144
15°	3451	4166	4395
20°	3395	4290	4548
25°	3316	4330	4590
30°	3216	4285	4515
35°	3078	4156	4339
40°	2910	3952	4054
45°	2719	3737	3747
50°	2526	3557	3480
55°	2347	3415	3265
60°	2222	3347	3134
65°	2141	3370	2982
70°	2104	3415	2852
75°	2091	3412	2725
80°	2052	3445	2665
85°	1964	3594	2699



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.4	3.2
10°-20°	411.1	9.9
20°-30°	644.9	15.5
30°-40°	752.0	18.1
40°-50°	715.5	17.2
50°-60°	604.0	14.6
60°-70°	470.6	11.3
70°-80°	306.9	7.4
80°-90°	111.7	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°	1187.3	28.6
0°-40°	1939.3	46.8
0°-60°	3258.8	78.6
0°-90°	4147.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4147.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1300	1305	1368	1400	1400	123
15°	1239	1360	1495	1562	1578	349
25°	1117	1300	1458	1527	1546	514
35°	937	1122	1265	1310	1321	584
45°	715	876	982	992	985	552
55°	500	656	728	707	696	450
65°	336	482	529	487	468	334
75°	201	323	328	275	262	211
85°	64	138	116	90	87	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1283.6	1283.6	1283.6	1283.6	1283.6
2.5°	1302.2	1286.4	1310.2	1326.0	1315.4
5°	1299.6	1304.9	1368.5	1400.1	1400.1
7.5°	1288.9	1326.0	1413.3	1455.7	1463.7
10°	1275.9	1344.5	1447.9	1503.4	1516.7
12.5°	1259.9	1357.8	1476.9	1537.8	1553.8
15°	1238.8	1360.5	1495.4	1561.6	1577.6
17.5°	1214.8	1355.2	1500.7	1572.3	1588.1
20°	1185.7	1344.5	1498.2	1569.6	1588.1
22.5°	1154.0	1326.0	1482.2	1553.8	1574.8
25°	1116.9	1299.6	1458.4	1527.2	1545.8
27.5°	1079.8	1262.6	1424.1	1487.4	1506.0
30°	1035.0	1222.8	1379.0	1439.9	1453.1
32.5°	987.2	1175.2	1326.0	1381.5	1392.3
35°	936.9	1122.2	1265.1	1310.2	1320.7
37.5°	881.3	1061.3	1196.3	1236.1	1238.8
40°	828.5	1000.5	1124.9	1156.7	1154.0
42.5°	772.9	939.6	1053.5	1074.6	1074.6
45°	714.6	876.0	981.9	992.5	984.7
47.5°	659.0	817.9	913.1	915.8	907.8
50°	603.4	759.6	849.7	841.7	831.2
52.5°	550.6	704.0	786.1	770.1	759.6
55°	500.2	656.5	727.8	706.8	696.0
57.5°	455.2	608.9	675.0	648.5	637.9
60°	412.9	563.8	621.9	592.9	582.3
62.5°	373.3	521.5	574.3	540.0	524.0
65°	336.2	481.7	529.3	487.0	468.4
67.5°	301.7	441.9	484.4	431.4	415.6
70°	267.4	402.3	434.1	378.5	362.5
72.5°	232.9	362.5	386.3	325.5	309.7
75°	201.1	323.0	328.2	275.2	262.1
77.5°	166.7	288.4	277.9	227.6	214.3
80°	132.4	243.6	222.3	180.0	172.0
82.5°	97.9	190.5	169.5	135.0	129.7
85°	63.6	137.7	116.4	89.9	87.4
87.5°	31.8	74.1	58.3	45.1	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)