

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: P183815

Luminaire Tested: **24SR-LD2-34-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32665)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-34-S-UNV-L850-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3805.3 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.55 / 1.51  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

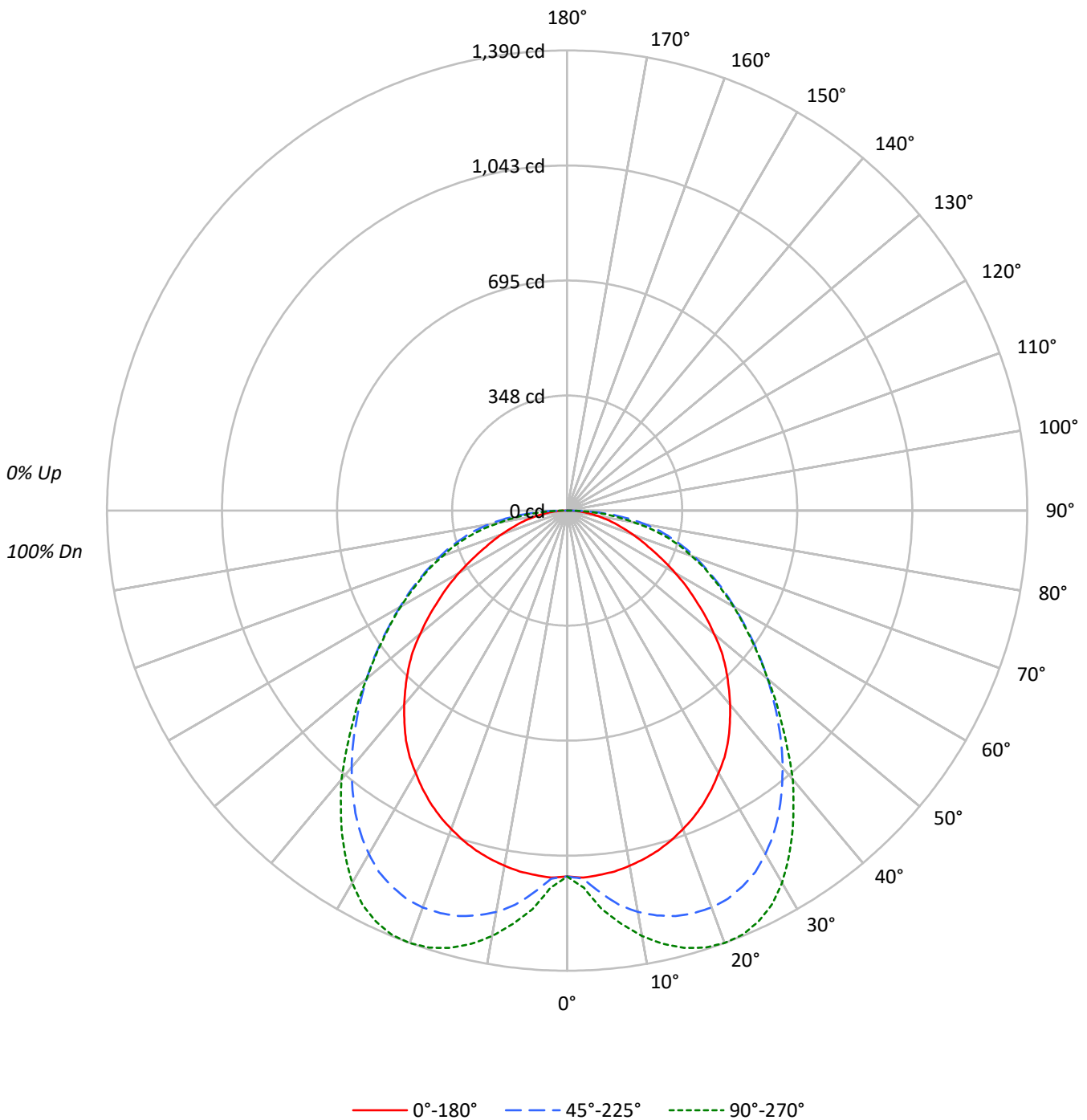
Input Watts (W): 27.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46		57	50	45		55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40		52	45	39		50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	29	55	42	34	29	41	33	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1487	1487	1487
5°	1493	1565	1633
10°	1489	1682	1783
15°	1480	1766	1905
20°	1466	1827	1990
25°	1448	1859	2032
30°	1422	1861	2017
35°	1394	1832	1949
40°	1345	1778	1863
45°	1291	1714	1748
50°	1213	1654	1654
55°	1115	1603	1592
60°	1015	1571	1562
65°	903	1571	1550
70°	830	1616	1568
75°	772	1712	1625
80°	727	1868	1583
85°	707	2016	1655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.6	3.0
10°-20°	353.6	9.3
20°-30°	563.2	14.8
30°-40°	671.6	17.6
40°-50°	661.6	17.4
50°-60°	571.4	15.0
60°-70°	445.9	11.7
70°-80°	305.6	8.0
80°-90°	119.9	3.2
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°	1029.4	27.1
0°-40°	1701.0	44.7
0°-60°	2933.9	77.1
0°-90°	3805.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3805.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1105	1125	1159	1202	1209	105
15°	1063	1175	1268	1347	1367	300
25°	976	1130	1252	1347	1369	449
35°	848	992	1115	1179	1187	529
45°	679	803	901	926	919	522
55°	476	603	683	685	679	427
65°	284	424	493	491	487	285
75°	148	288	329	316	313	158
85°	46	138	131	112	107	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1105.1	1105.1	1105.1	1105.1	1105.1
2.5°	1109.6	1110.7	1112.9	1135.3	1139.7
5°	1105.1	1125.2	1158.7	1202.2	1208.9
7.5°	1099.5	1144.2	1201.1	1248.0	1259.2
10°	1089.5	1163.2	1231.3	1290.4	1304.9
12.5°	1077.2	1173.2	1252.5	1321.7	1340.6
15°	1062.7	1175.4	1268.1	1347.3	1367.4
17.5°	1044.8	1172.1	1274.8	1361.9	1384.2
20°	1023.6	1163.2	1275.9	1367.4	1389.8
22.5°	1001.3	1149.8	1269.2	1363.0	1386.4
25°	975.6	1129.7	1252.5	1347.3	1368.6
27.5°	946.6	1101.8	1231.3	1320.6	1340.6
30°	915.3	1069.4	1197.8	1281.5	1298.2
32.5°	884.1	1033.7	1159.8	1234.6	1244.6
35°	848.4	992.4	1115.2	1178.8	1186.6
37.5°	807.1	951.1	1064.9	1120.7	1123.0
40°	765.8	900.8	1012.5	1053.8	1060.5
42.5°	722.2	851.7	957.8	992.4	987.9
45°	678.7	802.6	900.8	926.5	918.7
47.5°	632.9	752.4	845.0	861.8	856.2
50°	579.3	702.1	790.3	799.3	790.3
52.5°	528.0	654.1	736.7	741.2	733.4
55°	475.5	602.8	683.2	685.4	678.7
57.5°	427.5	554.8	631.8	631.8	628.5
60°	377.3	506.8	583.8	581.6	580.5
62.5°	329.3	464.4	539.2	535.8	532.5
65°	283.5	424.2	493.4	491.2	486.7
67.5°	245.6	386.2	451.0	447.6	445.4
70°	211.0	352.7	410.8	401.9	398.5
72.5°	177.5	319.3	371.7	358.3	359.4
75°	148.5	288.0	329.3	315.9	312.6
77.5°	119.4	255.6	288.0	266.8	262.3
80°	93.8	221.0	241.1	214.3	204.3
82.5°	69.2	183.1	187.5	161.9	155.2
85°	45.8	138.4	130.6	111.6	107.2
87.5°	24.6	81.5	70.3	56.9	53.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)