

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: P183975

Luminaire Tested: **14SR-LD2-35-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183975  
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-LD2-35-S-UNV-L850-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3843.3 lumens  
Efficiency: N/A  
Efficacy: 135.3 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

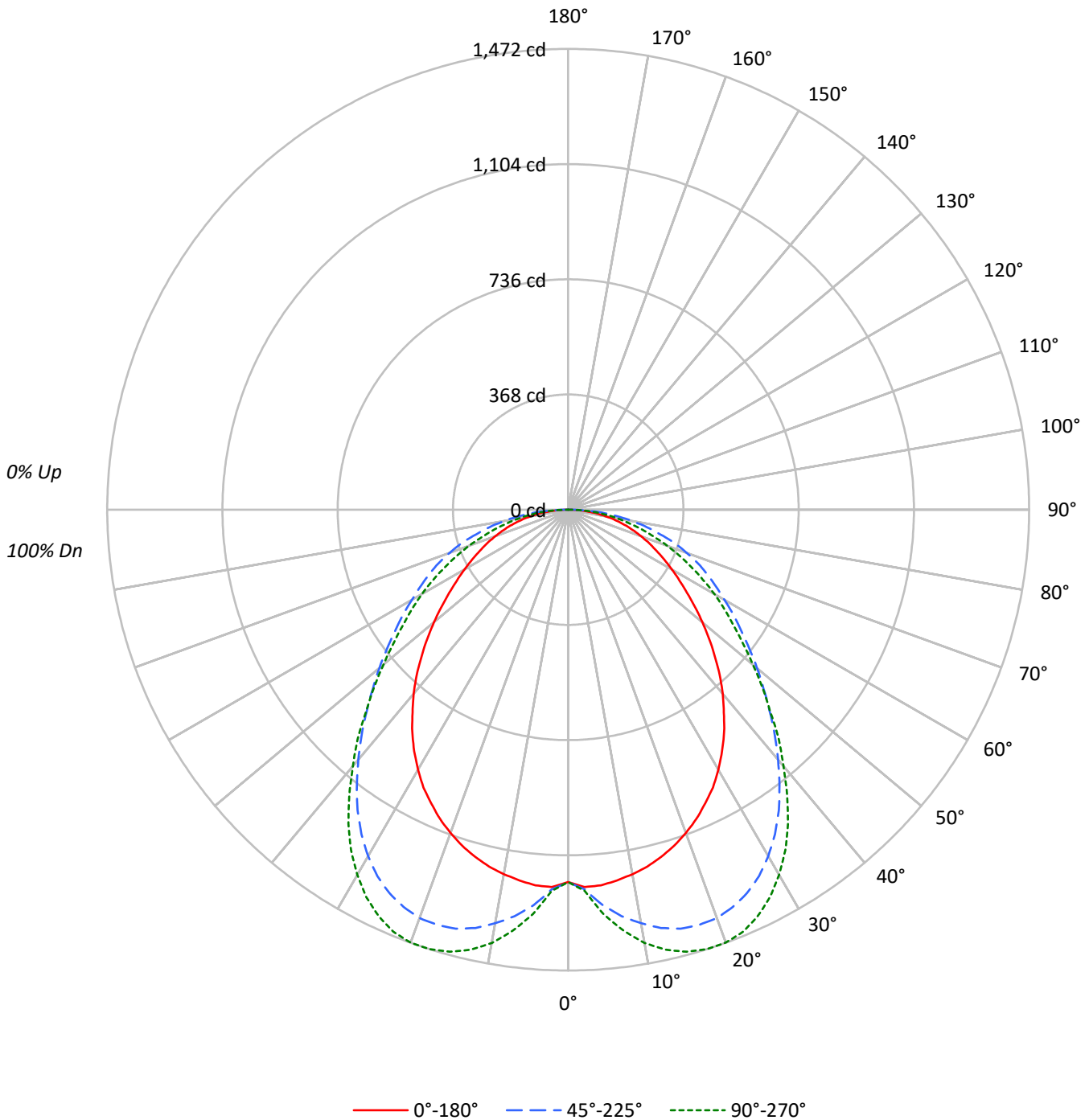
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3201	3201	3201
5°	3253	3425	3504
10°	3230	3666	3840
15°	3198	3860	4072
20°	3146	3975	4214
25°	3073	4012	4252
30°	2980	3970	4184
35°	2852	3851	4020
40°	2696	3661	3756
45°	2520	3462	3472
50°	2341	3296	3224
55°	2175	3164	3026
60°	2059	3102	2904
65°	1983	3123	2763
70°	1949	3164	2643
75°	1937	3162	2525
80°	1901	3192	2470
85°	1819	3331	2501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.7	3.2
10°-20°	380.9	9.9
20°-30°	597.5	15.5
30°-40°	696.7	18.1
40°-50°	662.9	17.2
50°-60°	559.6	14.6
60°-70°	436.0	11.3
70°-80°	284.4	7.4
80°-90°	103.5	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°	1100.1	28.6
0°-40°	1796.9	46.8
0°-60°	3019.5	78.6
0°-90°	3843.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3843.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1204	1209	1268	1297	1297	114
15°	1148	1261	1386	1447	1462	323
25°	1035	1204	1351	1415	1432	476
35°	868	1040	1172	1214	1224	541
45°	662	812	910	920	912	511
55°	464	608	674	655	645	417
65°	312	446	490	451	434	310
75°	186	299	304	255	243	196
85°	59	128	108	83	81	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1189.4	1189.4	1189.4	1189.4	1189.4
2.5°	1206.5	1191.9	1214.0	1228.6	1218.8
5°	1204.2	1209.1	1268.0	1297.3	1297.3
7.5°	1194.3	1228.6	1309.5	1348.7	1356.2
10°	1182.2	1245.8	1341.5	1393.0	1405.3
12.5°	1167.3	1258.0	1368.5	1424.8	1439.7
15°	1147.8	1260.6	1385.6	1446.9	1461.7
17.5°	1125.6	1255.7	1390.5	1456.8	1471.5
20°	1098.7	1245.8	1388.2	1454.3	1471.5
22.5°	1069.2	1228.6	1373.3	1439.7	1459.2
25°	1034.9	1204.2	1351.3	1415.1	1432.2
27.5°	1000.5	1169.9	1319.5	1378.2	1395.4
30°	959.0	1133.0	1277.7	1334.1	1346.4
32.5°	914.7	1088.9	1228.6	1280.1	1290.0
35°	868.1	1039.8	1172.2	1214.0	1223.7
37.5°	816.6	983.4	1108.4	1145.3	1147.8
40°	767.6	927.0	1042.3	1071.7	1069.2
42.5°	716.1	870.6	976.2	995.7	995.7
45°	662.1	811.7	909.8	919.6	912.4
47.5°	610.6	757.9	846.0	848.6	841.2
50°	559.1	703.8	787.3	779.9	770.2
52.5°	510.1	652.3	728.4	713.6	703.8
55°	463.5	608.2	674.4	654.9	644.9
57.5°	421.8	564.2	625.4	600.8	591.1
60°	382.5	522.4	576.3	549.3	539.6
62.5°	345.9	483.2	532.2	500.4	485.5
65°	311.5	446.3	490.4	451.2	434.0
67.5°	279.5	409.5	448.9	399.7	385.1
70°	247.7	372.8	402.2	350.7	335.9
72.5°	215.8	335.9	358.0	301.6	287.0
75°	186.3	299.2	304.1	255.0	242.9
77.5°	154.5	267.3	257.5	210.9	198.6
80°	122.7	225.7	206.0	166.8	159.4
82.5°	90.7	176.5	157.0	125.0	120.2
85°	58.9	127.6	107.9	83.3	81.0
87.5°	29.5	68.7	54.0	41.7	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)