

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: P229899

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-7)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-45-RDP-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3575.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

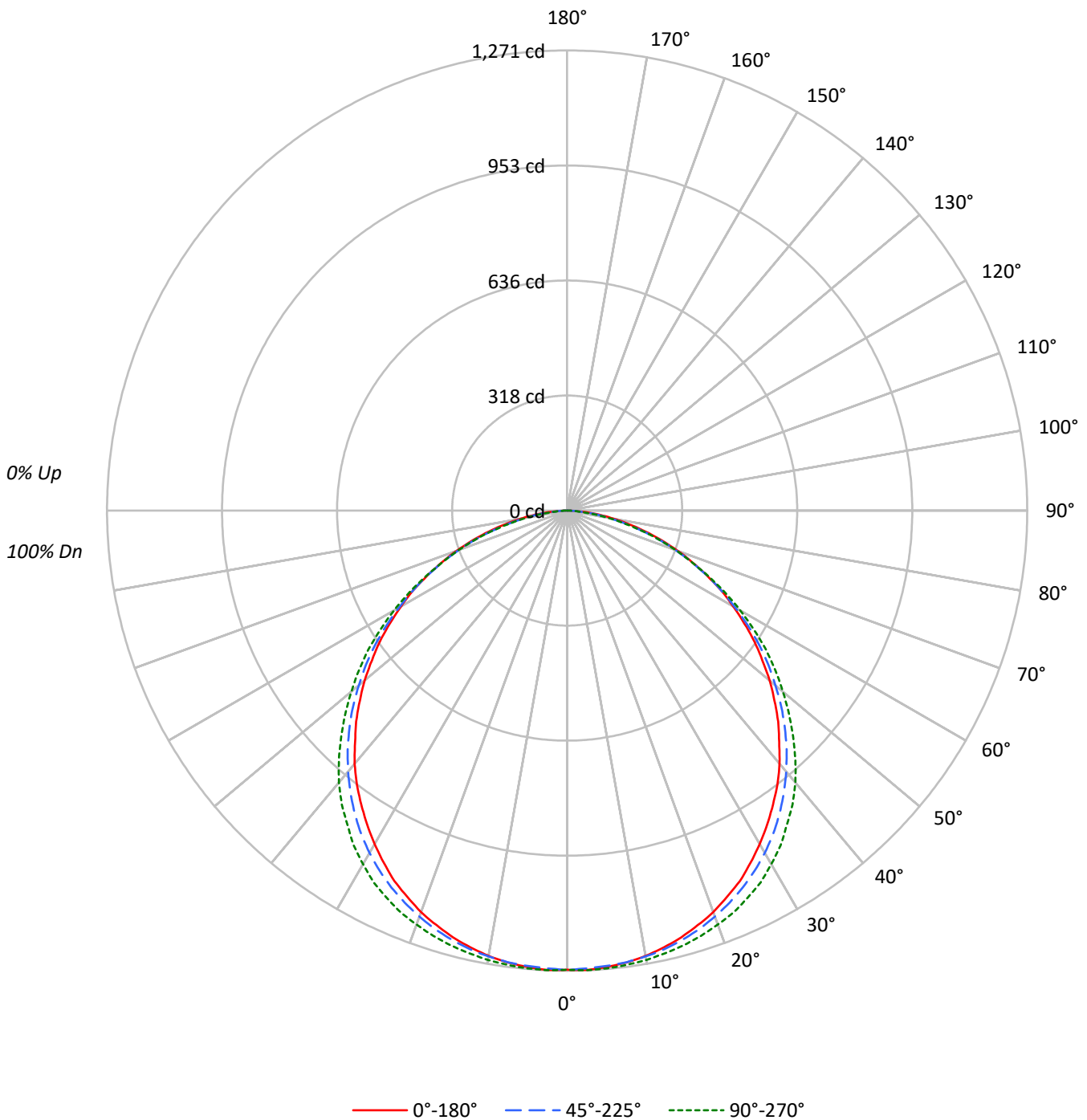
Input Watts (W): 34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	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	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1943	1943	1943
5°	1946	1941	1951
10°	1943	1945	1960
15°	1935	1946	1971
20°	1924	1945	1984
25°	1908	1941	1994
30°	1881	1931	1994
35°	1853	1912	1979
40°	1825	1882	1961
45°	1786	1842	1911
50°	1740	1790	1854
55°	1688	1729	1791
60°	1623	1644	1694
65°	1548	1548	1564
70°	1455	1429	1425
75°	1327	1248	1244
80°	1157	1039	992
85°	917	721	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	3.4
10°-20°	347.2	9.7
20°-30°	530.5	14.8
30°-40°	639.9	17.9
40°-50°	655.9	18.3
50°-60°	577.9	16.2
60°-70°	423.0	11.8
70°-80°	227.3	6.4
80°-90°	52.9	1.5
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°	998.0	27.9
0°-40°	1638.0	45.8
0°-60°	2871.8	80.3
0°-90°	3575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3575.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1268	1268	1268	1268	1268	
5°	1266	1264	1262	1266	1269	120
15°	1220	1222	1228	1237	1243	344
25°	1129	1132	1148	1171	1180	519
35°	991	996	1022	1051	1058	620
45°	824	824	850	875	882	635
55°	632	628	648	663	671	564
65°	427	420	427	432	432	423
75°	224	214	211	211	210	238
85°	52	46	41	34	32	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1268.5	1268.5	1268.5	1268.5	1268.5
2.5°	1270.0	1267.7	1265.5	1267.7	1270.7
5°	1265.5	1264.0	1262.5	1266.2	1269.2
7.5°	1258.8	1257.3	1258.0	1263.3	1265.5
10°	1249.1	1249.1	1250.6	1256.5	1260.3
12.5°	1235.7	1236.4	1240.9	1248.3	1252.1
15°	1220.0	1221.5	1227.5	1237.2	1243.1
17.5°	1200.6	1204.4	1212.6	1224.5	1231.2
20°	1180.5	1182.8	1193.2	1210.3	1217.0
22.5°	1154.4	1158.9	1172.3	1192.5	1201.4
25°	1129.1	1132.1	1148.5	1170.8	1179.8
27.5°	1097.1	1101.5	1121.6	1147.7	1157.4
30°	1063.5	1068.7	1091.8	1117.2	1127.6
32.5°	1028.5	1035.2	1059.0	1085.9	1097.1
35°	991.2	996.4	1022.5	1050.8	1058.3
37.5°	954.0	955.5	983.0	1010.6	1022.5
40°	913.0	914.5	941.3	967.4	980.8
42.5°	866.8	871.2	897.3	922.7	933.1
45°	824.3	823.5	850.4	875.0	882.4
47.5°	776.6	778.1	802.7	826.5	831.0
50°	730.4	729.6	751.2	772.1	778.1
52.5°	679.7	679.0	700.6	717.7	725.2
55°	632.0	628.3	647.6	662.6	670.8
57.5°	580.6	575.4	592.5	607.4	611.1
60°	529.9	523.9	536.6	547.8	553.0
62.5°	481.5	474.0	482.2	491.9	492.6
65°	427.0	419.6	427.0	432.3	431.5
67.5°	375.6	367.4	371.2	373.4	372.6
70°	324.9	313.8	319.0	317.5	318.2
72.5°	274.3	265.3	264.6	262.3	264.6
75°	224.3	213.9	210.9	210.9	210.2
77.5°	176.6	166.2	163.2	161.7	159.5
80°	131.2	123.0	117.8	117.0	112.5
82.5°	92.4	82.0	80.5	73.8	69.3
85°	52.2	46.2	41.0	33.5	32.0
87.5°	19.4	17.1	13.4	12.7	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)