

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: P229932

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229932
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-LD5-60-RDP-UNV-L930-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4078.0 lumens
Efficiency: N/A
Efficacy: 85.5 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

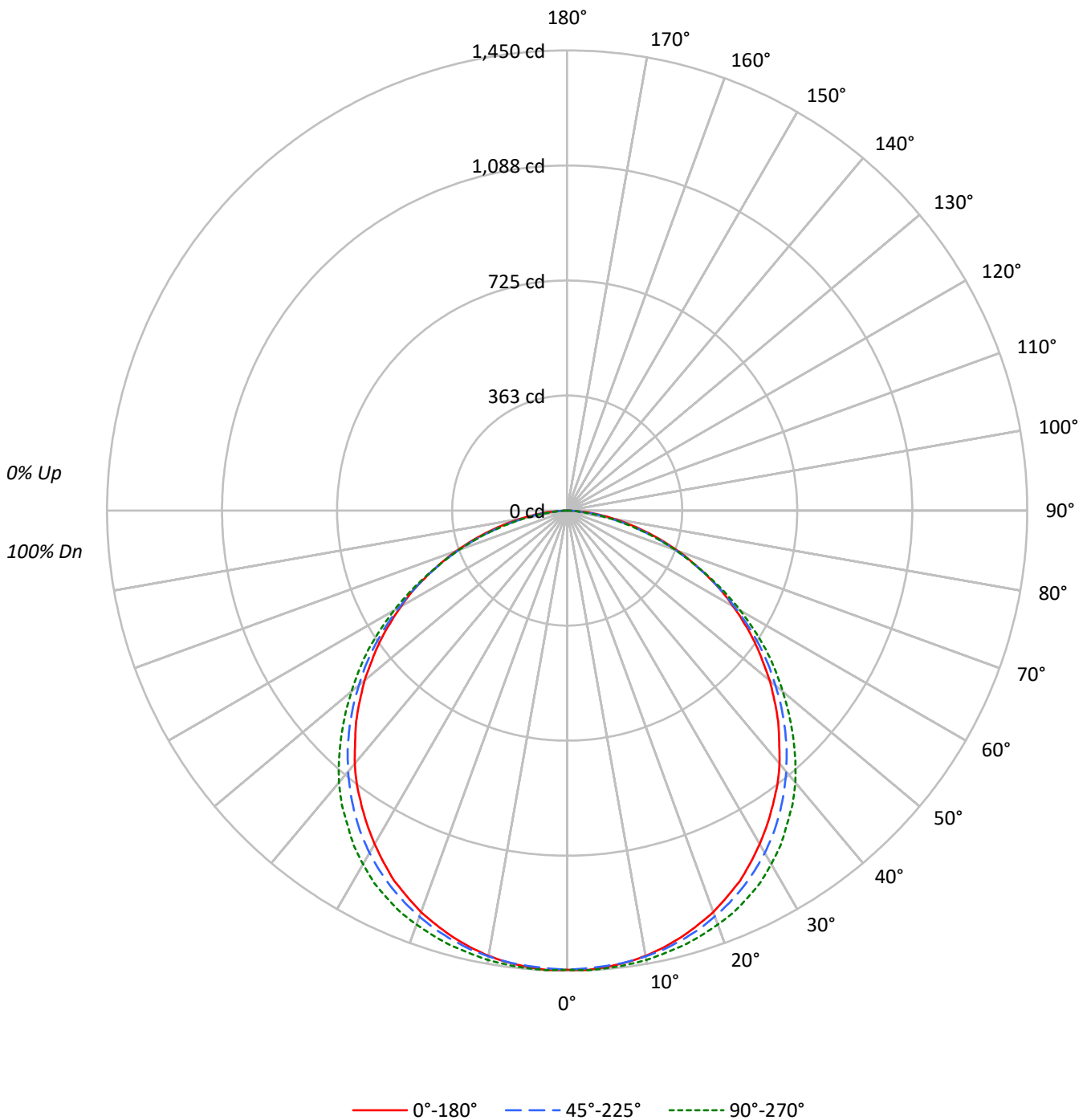
Input Watts (W): 47.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59					59			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2216	2216	2216
5°	2219	2214	2226
10°	2216	2219	2236
15°	2207	2220	2249
20°	2195	2219	2263
25°	2177	2214	2274
30°	2146	2203	2275
35°	2114	2181	2257
40°	2082	2147	2237
45°	2037	2101	2180
50°	1985	2042	2115
55°	1925	1973	2043
60°	1852	1875	1932
65°	1765	1765	1784
70°	1660	1630	1626
75°	1514	1424	1419
80°	1320	1185	1133
85°	1046	822	643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	3.4
10°-20°	396.0	9.7
20°-30°	605.1	14.8
30°-40°	730.0	17.9
40°-50°	748.2	18.3
50°-60°	659.2	16.2
60°-70°	482.5	11.8
70°-80°	259.3	6.4
80°-90°	60.4	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°	1138.5	27.9
0°-40°	1868.4	45.8
0°-60°	3275.9	80.3
0°-90°	4078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1447	1447	1447	1447	1447	
5°	1444	1442	1440	1444	1448	137
15°	1392	1393	1400	1411	1418	393
25°	1288	1291	1310	1336	1346	593
35°	1131	1137	1166	1199	1207	708
45°	940	939	970	998	1007	724
55°	721	717	739	756	765	643
65°	487	479	487	493	492	483
75°	256	244	241	241	240	272
85°	60	53	47	38	37	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446.9	1446.9	1446.9	1446.9	1446.9
2.5°	1448.6	1446.1	1443.5	1446.1	1449.5
5°	1443.5	1441.8	1440.1	1444.4	1447.8
7.5°	1435.9	1434.2	1435.0	1441.0	1443.5
10°	1424.8	1424.8	1426.5	1433.3	1437.6
12.5°	1409.5	1410.4	1415.5	1424.0	1428.2
15°	1391.7	1393.4	1400.2	1411.2	1418.0
17.5°	1369.6	1373.8	1383.2	1396.8	1404.4
20°	1346.6	1349.2	1361.1	1380.6	1388.3
22.5°	1316.9	1322.0	1337.3	1360.2	1370.4
25°	1288.0	1291.4	1310.1	1335.6	1345.8
27.5°	1251.4	1256.5	1279.5	1309.2	1320.3
30°	1213.2	1219.1	1245.5	1274.4	1286.3
32.5°	1173.2	1180.8	1208.1	1238.7	1251.4
35°	1130.7	1136.6	1166.4	1198.7	1207.2
37.5°	1088.2	1089.9	1121.3	1152.8	1166.4
40°	1041.4	1043.1	1073.7	1103.5	1118.8
42.5°	988.7	993.8	1023.6	1052.5	1064.4
45°	940.3	939.4	970.0	998.1	1006.6
47.5°	885.8	887.5	915.6	942.8	947.9
50°	833.1	832.3	856.9	880.7	887.5
52.5°	775.3	774.5	799.1	818.7	827.2
55°	720.9	716.7	738.8	755.8	765.1
57.5°	662.3	656.3	675.9	692.9	697.1
60°	604.5	597.6	612.1	624.9	630.8
62.5°	549.2	540.7	550.0	561.1	561.9
65°	487.1	478.6	487.1	493.1	492.2
67.5°	428.5	419.1	423.4	425.9	425.1
70°	370.7	357.9	363.9	362.2	363.0
72.5°	312.9	302.7	301.8	299.2	301.8
75°	255.9	244.0	240.6	240.6	239.7
77.5°	201.5	189.6	186.2	184.5	181.9
80°	149.6	140.3	134.3	133.5	128.4
82.5°	105.4	93.5	91.8	84.2	79.1
85°	59.5	52.7	46.8	38.3	36.6
87.5°	22.1	19.6	15.3	14.5	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)