

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: P229931

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229931
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-LD5-55-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: 3776.0 lumens
Efficiency: N/A
Efficacy: 88.4 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

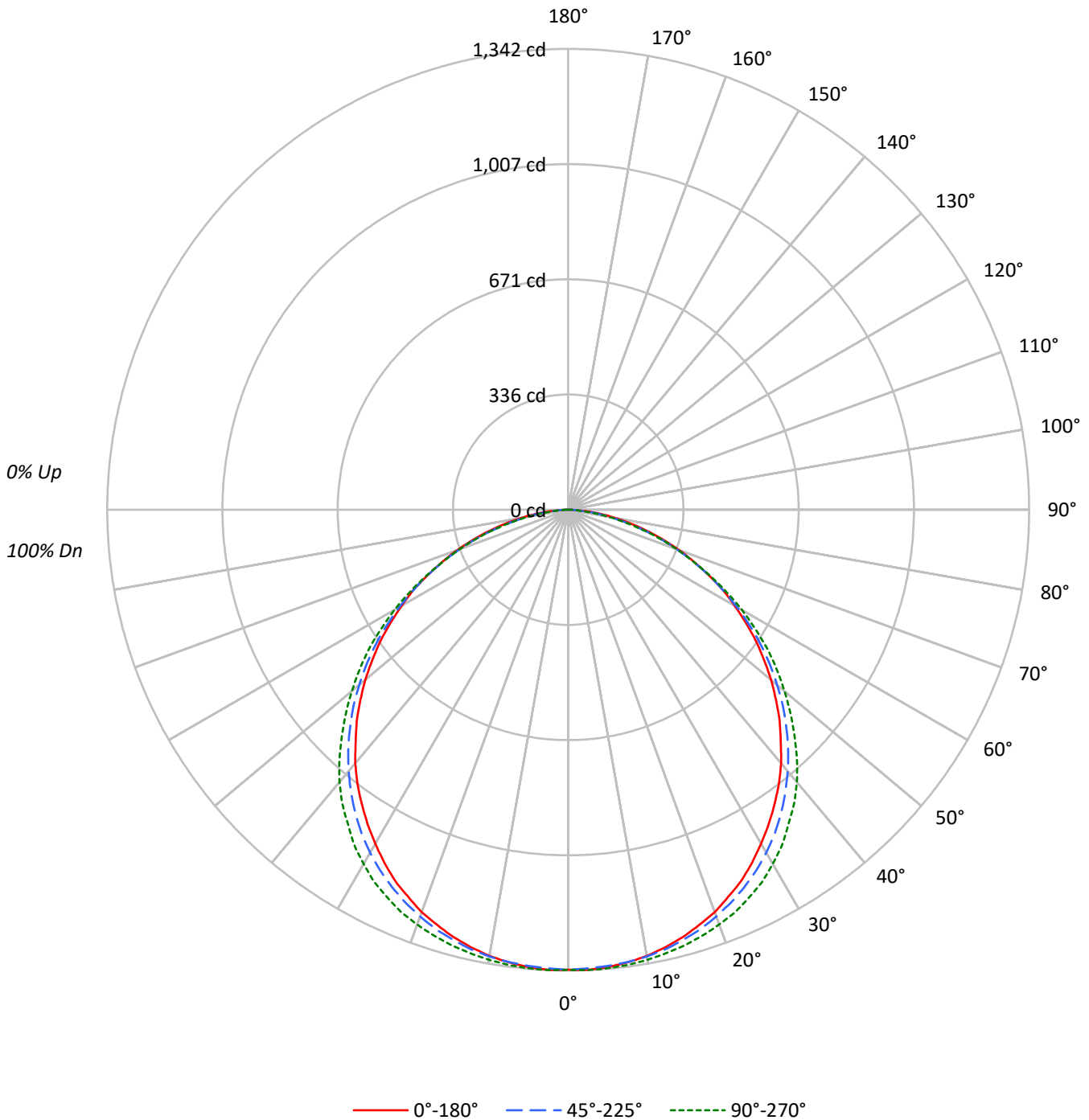
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229931

CATALOG NUMBER: 24RLN-LD5-55-RDP-UNV-L930-CD1-SVPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229931

CATALOG NUMBER: 24RLN-LD5-55-RDP-UNV-L930-CD1-SVPD1-U

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°	2052	2052	2052
5°	2055	2050	2061
10°	2052	2054	2070
15°	2043	2056	2082
20°	2032	2054	2095
25°	2016	2050	2106
30°	1987	2040	2106
35°	1958	2019	2090
40°	1928	1988	2071
45°	1886	1946	2019
50°	1838	1891	1958
55°	1782	1827	1892
60°	1715	1736	1789
65°	1635	1635	1652
70°	1537	1509	1505
75°	1402	1319	1314
80°	1222	1097	1049
85°	968	761	594



TEST NUMBER: P229931

CATALOG NUMBER: 24RLN-LD5-55-RDP-UNV-L930-CD1-SVPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	3.4
10°-20°	366.7	9.7
20°-30°	560.3	14.8
30°-40°	675.9	17.9
40°-50°	692.8	18.3
50°-60°	610.4	16.2
60°-70°	446.7	11.8
70°-80°	240.1	6.4
80°-90°	55.9	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°	1054.1	27.9
0°-40°	1730.1	45.8
0°-60°	3033.3	80.3
0°-90°	3776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1337	1335	1334	1337	1341	127
15°	1289	1290	1296	1307	1313	364
25°	1193	1196	1213	1237	1246	549
35°	1047	1052	1080	1110	1118	655
45°	871	870	898	924	932	671
55°	668	664	684	700	708	596
65°	451	443	451	457	456	447
75°	237	226	223	223	222	252
85°	55	49	43	35	34	66
90°	0	0	0	0	0	



TEST NUMBER: P229931

CATALOG NUMBER: 24RLN-LD5-55-RDP-UNV-L930-CD1-SVPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.8	1339.8	1339.8	1339.8	1339.8
2.5°	1341.4	1339.0	1336.6	1339.0	1342.1
5°	1336.6	1335.1	1333.5	1337.4	1340.6
7.5°	1329.6	1328.0	1328.8	1334.3	1336.6
10°	1319.3	1319.3	1320.9	1327.2	1331.1
12.5°	1305.2	1305.9	1310.7	1318.5	1322.5
15°	1288.6	1290.2	1296.5	1306.7	1313.0
17.5°	1268.2	1272.1	1280.7	1293.3	1300.4
20°	1246.9	1249.3	1260.3	1278.4	1285.5
22.5°	1219.3	1224.1	1238.2	1259.5	1268.9
25°	1192.6	1195.7	1213.1	1236.7	1246.1
27.5°	1158.7	1163.5	1184.7	1212.3	1222.5
30°	1123.3	1128.8	1153.2	1180.0	1191.0
32.5°	1086.3	1093.4	1118.6	1146.9	1158.7
35°	1047.0	1052.5	1080.0	1109.9	1117.8
37.5°	1007.6	1009.2	1038.3	1067.4	1080.0
40°	964.3	965.9	994.2	1021.8	1035.9
42.5°	915.5	920.2	947.8	974.5	985.6
45°	870.6	869.8	898.2	924.2	932.0
47.5°	820.2	821.8	847.8	873.0	877.7
50°	771.4	770.7	793.5	815.5	821.8
52.5°	717.9	717.1	740.0	758.1	765.9
55°	667.5	663.6	684.1	699.8	708.5
57.5°	613.2	607.7	625.8	641.6	645.5
60°	559.7	553.4	566.8	578.6	584.1
62.5°	508.5	500.6	509.3	519.5	520.3
65°	451.1	443.2	451.1	456.6	455.8
67.5°	396.7	388.1	392.0	394.4	393.6
70°	343.2	331.4	336.9	335.3	336.1
72.5°	289.7	280.2	279.5	277.1	279.5
75°	236.9	225.9	222.8	222.8	222.0
77.5°	186.6	175.5	172.4	170.8	168.5
80°	138.5	129.9	124.4	123.6	118.9
82.5°	97.6	86.6	85.0	77.9	73.2
85°	55.1	48.8	43.3	35.4	33.8
87.5°	20.5	18.1	14.2	13.4	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)