

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: P229595

Luminaire Tested: **22RLN-LD5-44-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36050)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-44-UNV-L930-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

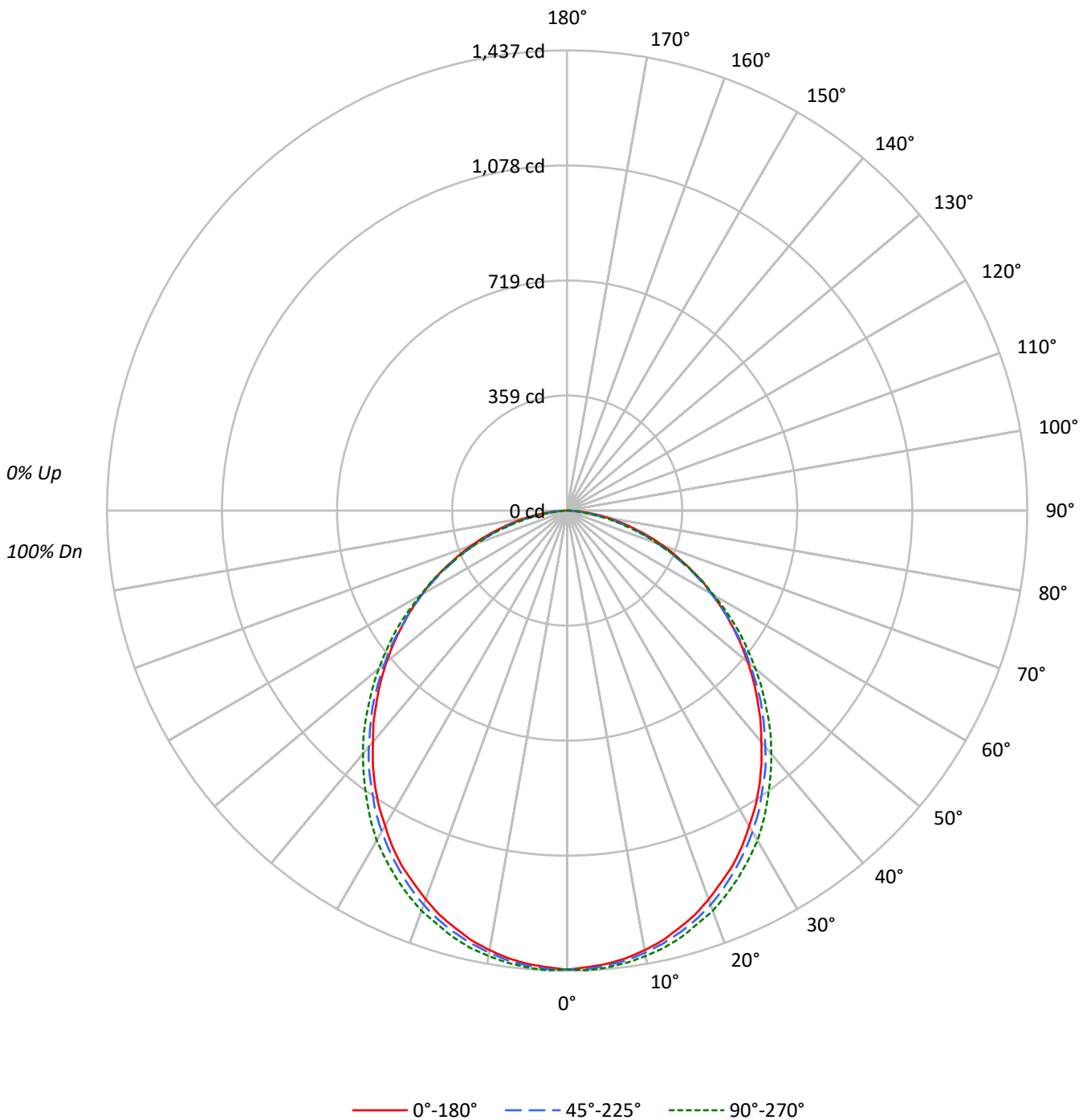
Lumens per Lamp: N/A
Luminaire Lumens: 3664.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.6
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: P229595
CATALOG NUMBER: 22RLN-LD5-44-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229595

CATALOG NUMBER: 22RLN-LD5-44-UNV-L930-CD1-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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4590	4590	4590
5°	4567	4585	4604
10°	4533	4559	4593
15°	4475	4521	4571
20°	4402	4465	4532
25°	4322	4379	4469
30°	4205	4282	4398
35°	4091	4155	4273
40°	3943	4026	4147
45°	3809	3882	3993
50°	3669	3709	3825
55°	3515	3522	3644
60°	3348	3333	3385
65°	3168	3098	3142
70°	2969	2817	2828
75°	2688	2472	2401
80°	2377	2079	1927
85°	1922	1451	1238



TEST NUMBER: P229595

CATALOG NUMBER: 22RLN-LD5-44-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	3.7
10°-20°	384.5	10.5
20°-30°	571.6	15.6
30°-40°	667.2	18.2
40°-50°	662.3	18.1
50°-60°	568.3	15.5
60°-70°	407.9	11.1
70°-80°	216.1	5.9
80°-90°	50.6	1.4
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°	1091.5	29.8
0°-40°	1758.8	48.0
0°-60°	2989.3	81.6
0°-90°	3664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1420	1423	1426	1431	1432	135
15°	1350	1354	1364	1374	1379	381
25°	1223	1226	1239	1258	1265	562
35°	1046	1050	1063	1086	1093	654
45°	841	844	857	872	882	649
55°	630	626	631	645	653	563
65°	418	408	409	412	415	415
75°	217	207	200	198	194	231
85°	52	45	40	34	34	62
90°	0	0	0	0	0	



TEST NUMBER: P229595

CATALOG NUMBER: 22RLN-LD5-44-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.3	1433.3	1433.3	1433.3	1433.3
2.5°	1427.4	1428.6	1432.1	1435.6	1436.7
5°	1420.5	1422.8	1426.3	1430.9	1432.1
7.5°	1410.0	1412.4	1417.0	1421.6	1424.0
10°	1393.8	1397.3	1401.9	1410.0	1412.4
12.5°	1375.2	1377.5	1384.5	1393.8	1398.4
15°	1349.6	1354.3	1363.6	1374.0	1378.7
17.5°	1324.1	1327.6	1339.2	1349.6	1353.1
20°	1291.6	1298.5	1310.1	1322.9	1329.9
22.5°	1256.7	1262.5	1276.5	1291.6	1298.5
25°	1223.0	1226.5	1239.3	1257.9	1264.8
27.5°	1182.4	1185.9	1199.8	1218.4	1227.7
30°	1137.1	1142.9	1158.0	1178.9	1189.3
32.5°	1094.1	1098.8	1113.9	1132.4	1142.9
35°	1046.5	1050.0	1062.7	1086.0	1092.9
37.5°	996.5	1000.0	1017.4	1034.9	1043.0
40°	943.1	947.8	962.9	980.3	991.9
42.5°	894.3	896.7	909.4	929.2	939.6
45°	840.9	844.4	857.2	872.3	881.6
47.5°	789.8	788.6	801.4	818.8	825.8
50°	736.4	734.1	744.5	761.9	767.7
52.5°	682.9	679.5	691.1	703.9	708.5
55°	629.5	626.0	630.7	644.6	652.7
57.5°	577.3	571.4	577.3	584.2	591.2
60°	522.7	513.4	520.3	528.5	528.5
62.5°	472.7	462.3	465.8	471.6	475.0
65°	418.1	407.7	408.8	412.3	414.6
67.5°	367.0	356.6	354.2	355.4	356.6
70°	317.1	305.5	300.8	298.5	302.0
72.5°	266.0	254.4	252.0	247.4	248.6
75°	217.2	206.7	199.8	197.5	194.0
77.5°	170.7	161.4	155.6	148.7	147.5
80°	128.9	117.3	112.7	108.0	104.5
82.5°	90.6	80.1	72.0	67.4	63.9
85°	52.3	45.3	39.5	33.7	33.7
87.5°	20.9	16.3	13.9	12.8	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)