

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: P229665

Luminaire Tested: **22RLN-LD5-35-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36063)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-35-UNV-L930-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR
Light Source: (126)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2845.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.29
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

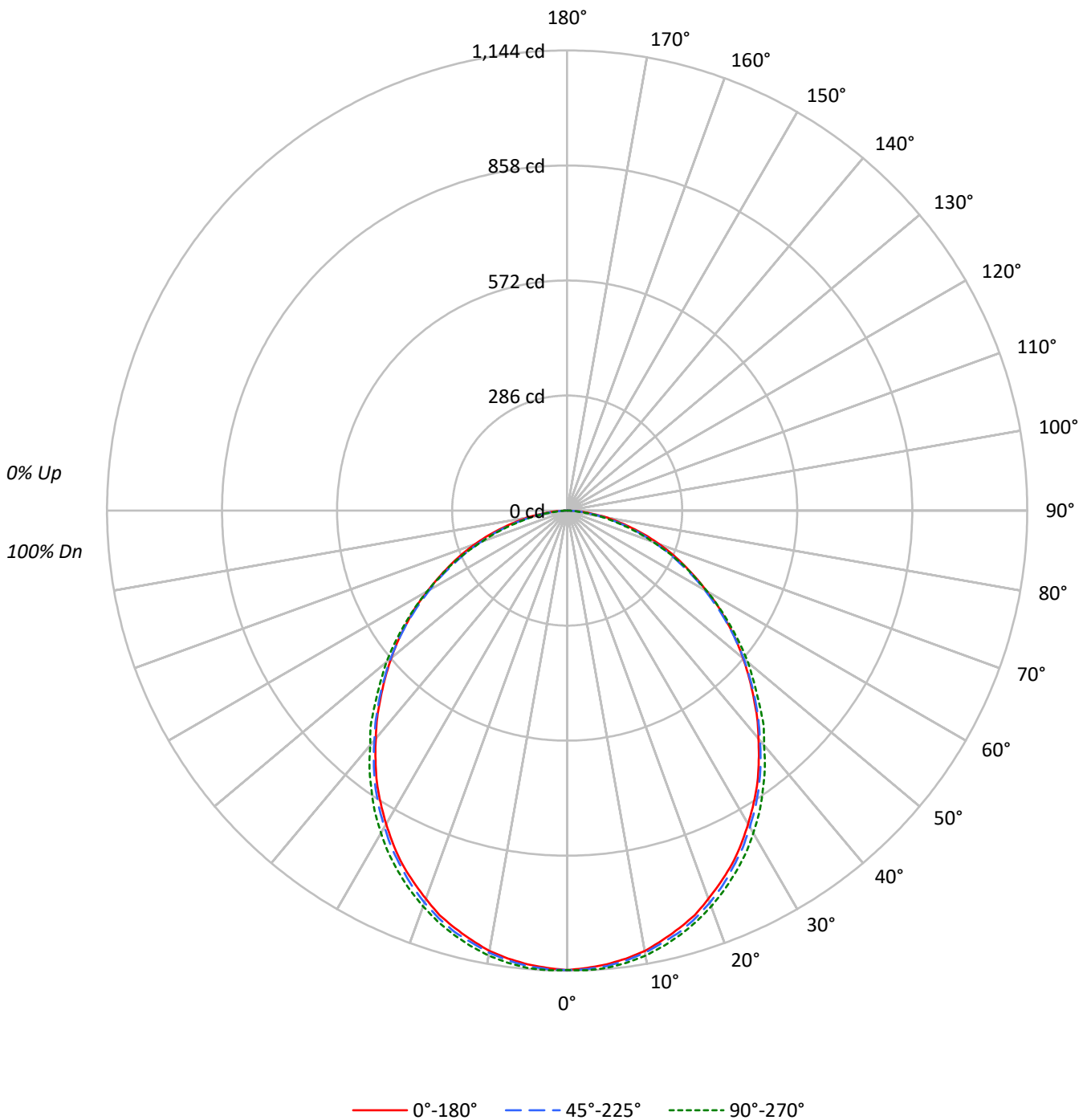
Input Watts (W): 30.57
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229665

CATALOG NUMBER: 22RLN-LD5-35-UNV-L930-CD1-SVPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229665

CATALOG NUMBER: 22RLN-LD5-35-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	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3659	3659	3659
5°	3640	3654	3668
10°	3615	3630	3653
15°	3565	3594	3618
20°	3500	3535	3569
25°	3427	3453	3505
30°	3327	3359	3424
35°	3225	3254	3317
40°	3095	3119	3186
45°	2968	2988	3054
50°	2842	2857	2923
55°	2711	2704	2753
60°	2567	2529	2577
65°	2427	2339	2395
70°	2274	2151	2110
75°	2064	1901	1828
80°	1861	1619	1510
85°	1451	1128	966



TEST NUMBER: P229665

CATALOG NUMBER: 22RLN-LD5-35-UNV-L930-CD1-SVPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	3.8
10°-20°	305.2	10.7
20°-30°	450.7	15.8
30°-40°	521.2	18.3
40°-50°	511.2	18.0
50°-60°	434.8	15.3
60°-70°	309.7	10.9
70°-80°	165.2	5.8
80°-90°	39.2	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°	863.8	30.4
0°-40°	1384.9	48.7
0°-60°	2330.9	81.9
0°-90°	2845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1132	1134	1137	1140	1141	107
15°	1075	1077	1084	1090	1091	303
25°	970	971	977	987	992	446
35°	825	822	832	846	848	515
45°	655	654	660	671	674	506
55°	486	481	484	490	493	435
65°	320	310	309	310	316	318
75°	167	158	154	151	148	178
85°	40	35	31	26	26	47
90°	0	0	0	0	0	



TEST NUMBER: P229665

CATALOG NUMBER: 22RLN-LD5-35-UNV-L930-CD1-SVPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.4	1142.4	1142.4	1142.4	1142.4
2.5°	1138.0	1139.5	1141.0	1143.9	1143.9
5°	1132.2	1133.6	1136.6	1139.5	1141.0
7.5°	1123.4	1123.4	1127.8	1130.7	1133.6
10°	1111.7	1113.2	1116.1	1120.5	1123.4
12.5°	1094.1	1097.1	1100.0	1105.8	1108.8
15°	1075.1	1076.6	1083.9	1089.8	1091.2
17.5°	1054.7	1054.7	1062.0	1067.8	1070.7
20°	1026.9	1029.8	1037.1	1044.4	1047.3
22.5°	999.1	1002.0	1009.3	1016.6	1021.0
25°	969.8	971.3	977.1	987.4	991.8
27.5°	936.2	939.1	944.9	955.2	961.0
30°	899.6	902.5	908.4	920.1	925.9
32.5°	863.0	866.0	871.8	883.5	889.4
35°	825.0	822.1	832.3	845.5	848.4
37.5°	782.6	784.0	789.9	801.6	807.4
40°	740.2	740.2	746.0	759.2	762.1
42.5°	699.2	697.7	703.6	715.3	722.6
45°	655.3	653.9	659.7	671.4	674.3
47.5°	612.9	610.0	615.8	626.1	629.0
50°	570.5	567.6	573.4	582.2	586.6
52.5°	529.5	523.7	528.1	535.4	539.8
55°	485.6	481.2	484.2	490.0	493.0
57.5°	446.1	437.4	438.8	444.7	447.6
60°	400.8	393.5	394.9	400.8	402.3
62.5°	359.8	352.5	352.5	354.0	356.9
65°	320.3	310.1	308.6	310.1	316.0
67.5°	282.3	272.1	269.1	269.1	270.6
70°	242.8	232.6	229.7	228.2	225.3
72.5°	206.2	193.1	191.6	187.2	188.7
75°	166.8	158.0	153.6	150.7	147.7
77.5°	131.6	124.3	118.5	114.1	114.1
80°	100.9	90.7	87.8	81.9	81.9
82.5°	67.3	62.9	57.0	52.7	51.2
85°	39.5	35.1	30.7	26.3	26.3
87.5°	14.6	11.7	10.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)