

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: P229605

Luminaire Tested: **22RLN-LD5-35-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229605
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-LD5-35-UNV-L940-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

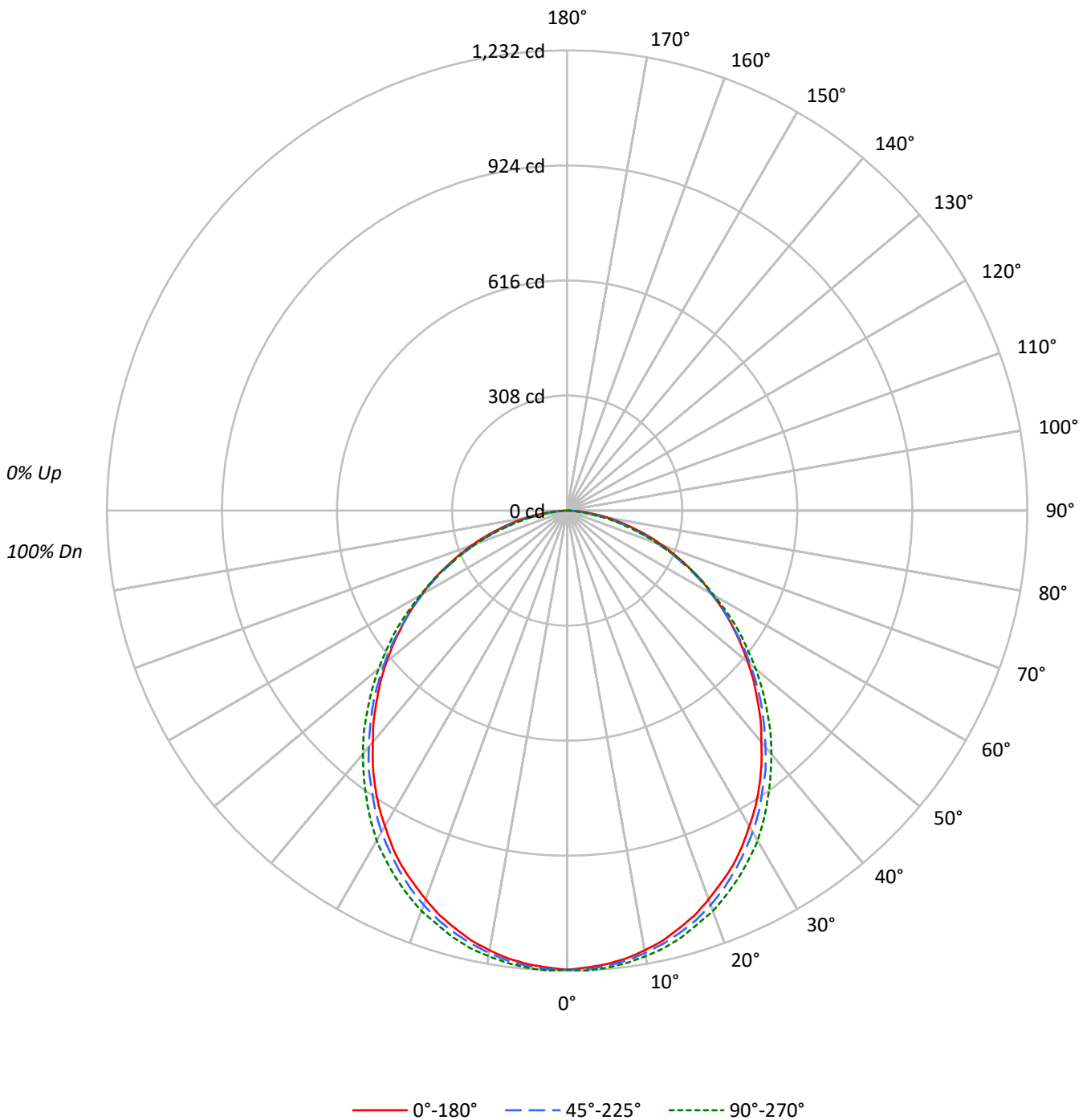
Lumens per Lamp: N/A
Luminaire Lumens: 3143.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 30.57
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	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°	3938	3938	3938
5°	3917	3933	3949
10°	3888	3911	3940
15°	3838	3878	3921
20°	3776	3830	3888
25°	3707	3757	3834
30°	3607	3673	3773
35°	3510	3564	3665
40°	3382	3453	3557
45°	3267	3330	3425
50°	3147	3182	3281
55°	3015	3021	3126
60°	2871	2859	2903
65°	2718	2658	2695
70°	2547	2416	2425
75°	2305	2121	2059
80°	2040	1782	1654
85°	1646	1246	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	3.7
10°-20°	329.9	10.5
20°-30°	490.3	15.6
30°-40°	572.3	18.2
40°-50°	568.1	18.1
50°-60°	487.5	15.5
60°-70°	349.9	11.1
70°-80°	185.4	5.9
80°-90°	43.4	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°	936.3	29.8
0°-40°	1508.7	48.0
0°-60°	2564.3	81.6
0°-90°	3143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1218	1220	1224	1228	1228	116
15°	1158	1162	1170	1179	1183	326
25°	1049	1052	1063	1079	1085	482
35°	898	901	912	932	938	561
45°	721	724	735	748	756	557
55°	540	537	541	553	560	483
65°	359	350	351	354	356	356
75°	186	177	171	169	166	198
85°	45	39	34	29	29	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.5	1229.5	1229.5	1229.5	1229.5
2.5°	1224.5	1225.5	1228.5	1231.4	1232.4
5°	1218.5	1220.5	1223.5	1227.5	1228.5
7.5°	1209.5	1211.5	1215.5	1219.5	1221.5
10°	1195.6	1198.6	1202.6	1209.5	1211.5
12.5°	1179.6	1181.6	1187.6	1195.6	1199.6
15°	1157.7	1161.7	1169.7	1178.6	1182.6
17.5°	1135.8	1138.8	1148.8	1157.7	1160.7
20°	1107.9	1113.9	1123.8	1134.8	1140.8
22.5°	1078.0	1083.0	1095.0	1107.9	1113.9
25°	1049.1	1052.1	1063.1	1079.0	1085.0
27.5°	1014.3	1017.2	1029.2	1045.1	1053.1
30°	975.4	980.4	993.3	1011.3	1020.2
32.5°	938.5	942.5	955.5	971.4	980.4
35°	897.7	900.7	911.6	931.6	937.5
37.5°	854.8	857.8	872.8	887.7	894.7
40°	809.0	813.0	825.9	840.9	850.9
42.5°	767.2	769.2	780.1	797.1	806.0
45°	721.3	724.3	735.3	748.2	756.2
47.5°	677.5	676.5	687.5	702.4	708.4
50°	631.7	629.7	638.6	653.6	658.6
52.5°	585.8	582.8	592.8	603.8	607.8
55°	540.0	537.0	541.0	553.0	559.9
57.5°	495.2	490.2	495.2	501.1	507.1
60°	448.3	440.4	446.4	453.3	453.3
62.5°	405.5	396.5	399.5	404.5	407.5
65°	358.7	349.7	350.7	353.7	355.7
67.5°	314.8	305.9	303.9	304.9	305.9
70°	272.0	262.0	258.0	256.1	259.0
72.5°	228.2	218.2	216.2	212.2	213.2
75°	186.3	177.3	171.4	169.4	166.4
77.5°	146.5	138.5	133.5	127.5	126.5
80°	110.6	100.6	96.6	92.7	89.7
82.5°	77.7	68.7	61.8	57.8	54.8
85°	44.8	38.9	33.9	28.9	28.9
87.5°	17.9	13.9	12.0	11.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)