

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: P229648

Luminaire Tested: **22RLN-LD5-40-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229648
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-LD5-40-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3740.0 lumens
Efficiency: N/A
Efficacy: 105.1 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

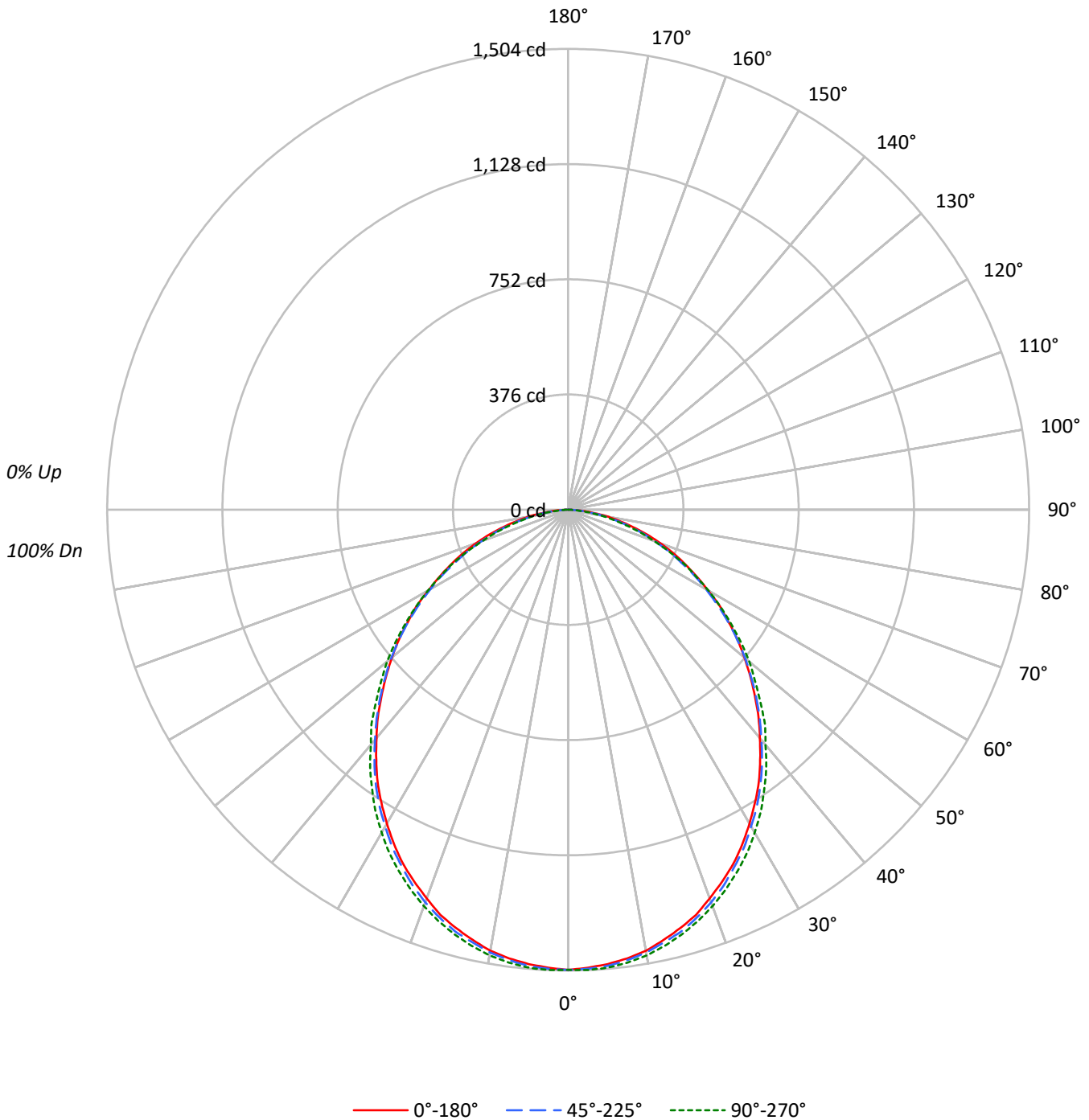
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	58	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°	4810	4810	4810
5°	4785	4803	4822
10°	4752	4771	4803
15°	4686	4724	4756
20°	4601	4647	4692
25°	4505	4539	4607
30°	4373	4416	4501
35°	4240	4278	4360
40°	4068	4100	4188
45°	3902	3928	4015
50°	3736	3756	3842
55°	3565	3554	3618
60°	3375	3326	3387
65°	3191	3074	3148
70°	2989	2827	2773
75°	2712	2498	2403
80°	2447	2128	1986
85°	1907	1485	1271



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	3.8
10°-20°	401.2	10.7
20°-30°	592.5	15.8
30°-40°	685.1	18.3
40°-50°	672.0	18.0
50°-60°	571.5	15.3
60°-70°	407.1	10.9
70°-80°	217.2	5.8
80°-90°	51.6	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°	1135.5	30.4
0°-40°	1820.6	48.7
0°-60°	3064.1	81.9
0°-90°	3740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1488	1490	1494	1498	1500	141
15°	1413	1415	1425	1433	1434	398
25°	1275	1277	1284	1298	1304	586
35°	1084	1081	1094	1112	1115	677
45°	862	860	867	883	886	665
55°	638	633	636	644	648	572
65°	421	408	406	408	415	418
75°	219	208	202	198	194	234
85°	52	46	40	35	35	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1501.8	1501.8	1501.8	1501.8	1501.8
2.5°	1496.0	1498.0	1499.9	1503.7	1503.7
5°	1488.3	1490.3	1494.1	1498.0	1499.9
7.5°	1476.8	1476.8	1482.6	1486.4	1490.3
10°	1461.4	1463.3	1467.2	1473.0	1476.8
12.5°	1438.4	1442.2	1446.0	1453.7	1457.6
15°	1413.4	1415.3	1424.9	1432.6	1434.5
17.5°	1386.4	1386.4	1396.0	1403.7	1407.6
20°	1349.9	1353.7	1363.4	1373.0	1376.8
22.5°	1313.4	1317.2	1326.8	1336.4	1342.2
25°	1274.9	1276.8	1284.5	1298.0	1303.7
27.5°	1230.7	1234.5	1242.2	1255.7	1263.4
30°	1182.6	1186.4	1194.1	1209.5	1217.2
32.5°	1134.5	1138.4	1146.1	1161.4	1169.1
35°	1084.5	1080.7	1094.1	1111.5	1115.3
37.5°	1028.8	1030.7	1038.4	1053.8	1061.5
40°	973.0	973.0	980.7	998.0	1001.8
42.5°	919.2	917.2	924.9	940.3	949.9
45°	861.5	859.5	867.2	882.6	886.5
47.5°	805.7	801.9	809.6	823.0	826.9
50°	749.9	746.1	753.8	765.3	771.1
52.5°	696.1	688.4	694.2	703.8	709.6
55°	638.4	632.6	636.5	644.2	648.0
57.5°	586.5	575.0	576.9	584.6	588.4
60°	526.9	517.3	519.2	526.9	528.8
62.5°	473.0	463.4	463.4	465.3	469.2
65°	421.1	407.7	405.7	407.7	415.4
67.5°	371.1	357.7	353.8	353.8	355.7
70°	319.2	305.7	301.9	300.0	296.1
72.5°	271.1	253.8	251.9	246.1	248.1
75°	219.2	207.7	201.9	198.1	194.2
77.5°	173.1	163.4	155.8	150.0	150.0
80°	132.7	119.2	115.4	107.7	107.7
82.5°	88.5	82.7	75.0	69.2	67.3
85°	51.9	46.2	40.4	34.6	34.6
87.5°	19.2	15.4	13.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)