

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: P229660

Luminaire Tested: **22RLN-LD5-40-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229660
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-L840-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3896.0 lumens
Efficiency: N/A
Efficacy: 109.4 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

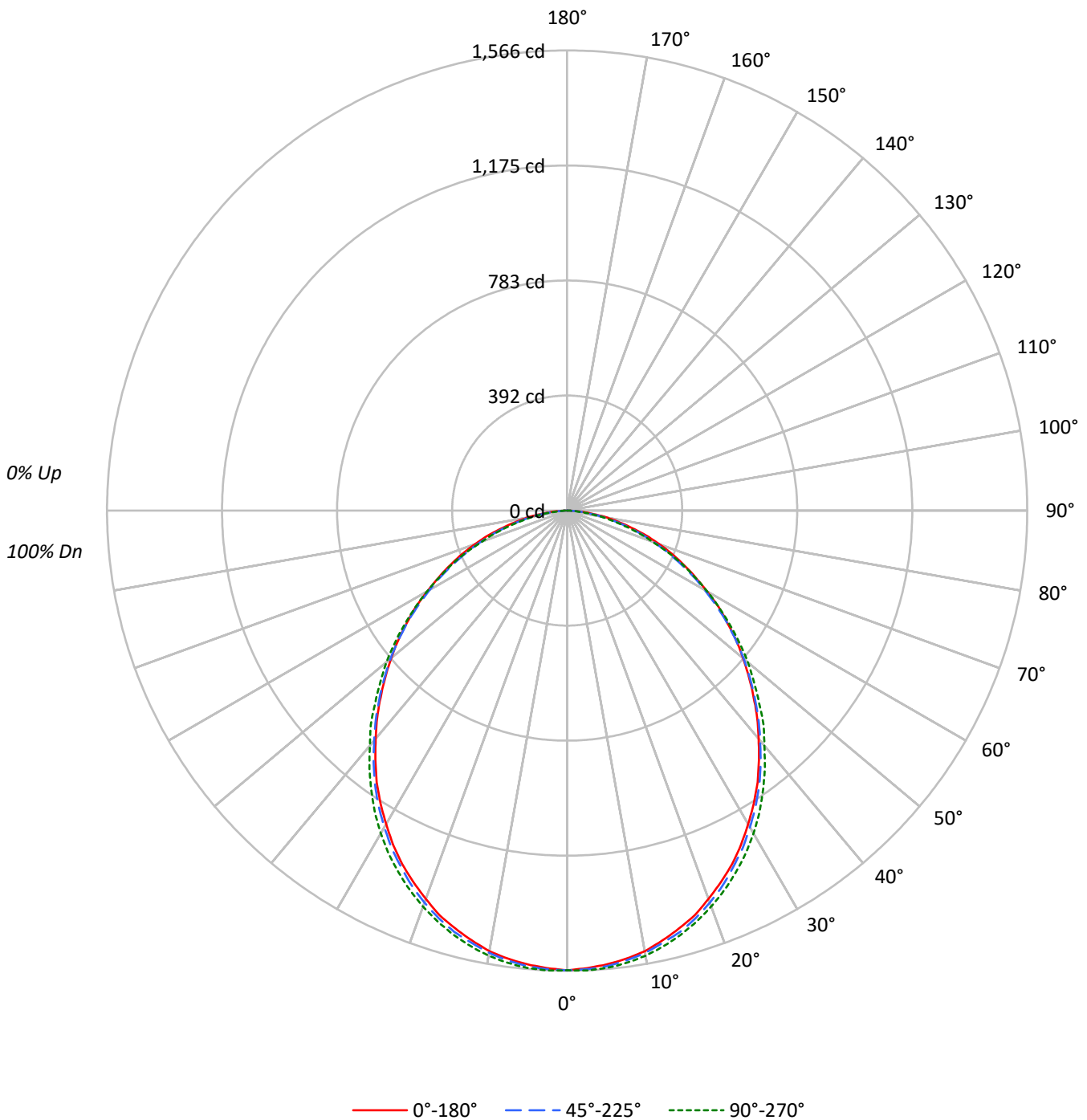
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5010	5010	5010
5°	4984	5004	5023
10°	4951	4970	5003
15°	4882	4921	4954
20°	4793	4840	4888
25°	4693	4728	4799
30°	4556	4600	4689
35°	4417	4456	4542
40°	4238	4271	4363
45°	4064	4092	4182
50°	3892	3912	4002
55°	3713	3702	3769
60°	3516	3464	3529
65°	3324	3203	3279
70°	3113	2945	2889
75°	2826	2602	2503
80°	2549	2217	2069
85°	1988	1547	1327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	3.8
10°-20°	418.0	10.7
20°-30°	617.2	15.8
30°-40°	713.7	18.3
40°-50°	700.0	18.0
50°-60°	595.3	15.3
60°-70°	424.1	10.9
70°-80°	226.2	5.8
80°-90°	53.8	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°	1182.8	30.4
0°-40°	1896.6	48.7
0°-60°	3191.9	81.9
0°-90°	3896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1550	1552	1556	1560	1562	147
15°	1472	1474	1484	1492	1494	415
25°	1328	1330	1338	1352	1358	611
35°	1130	1126	1140	1158	1162	705
45°	897	895	903	919	923	693
55°	665	659	663	671	675	596
65°	439	425	423	425	433	435
75°	228	216	210	206	202	244
85°	54	48	42	36	36	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1564.4	1564.4	1564.4	1564.4	1564.4
2.5°	1558.4	1560.4	1562.4	1566.5	1566.5
5°	1550.4	1552.4	1556.4	1560.4	1562.4
7.5°	1538.4	1538.4	1544.4	1548.4	1552.4
10°	1522.4	1524.4	1528.4	1534.4	1538.4
12.5°	1498.3	1502.4	1506.4	1514.4	1518.4
15°	1472.3	1474.3	1484.3	1492.3	1494.3
17.5°	1444.3	1444.3	1454.3	1462.3	1466.3
20°	1406.2	1410.2	1420.2	1430.2	1434.2
22.5°	1368.1	1372.1	1382.2	1392.2	1398.2
25°	1328.1	1330.1	1338.1	1352.1	1358.1
27.5°	1282.0	1286.0	1294.0	1308.0	1316.1
30°	1231.9	1235.9	1243.9	1260.0	1268.0
32.5°	1181.9	1185.9	1193.9	1209.9	1217.9
35°	1129.8	1125.8	1139.8	1157.8	1161.8
37.5°	1071.7	1073.7	1081.7	1097.7	1105.7
40°	1013.6	1013.6	1021.6	1039.6	1043.6
42.5°	957.5	955.5	963.5	979.5	989.5
45°	897.4	895.4	903.4	919.4	923.4
47.5°	839.3	835.3	843.3	857.3	861.3
50°	781.2	777.2	785.2	797.2	803.3
52.5°	725.1	717.1	723.1	733.1	739.2
55°	665.0	659.0	663.0	671.1	675.1
57.5°	611.0	598.9	600.9	609.0	613.0
60°	548.9	538.8	540.8	548.9	550.9
62.5°	492.8	482.8	482.8	484.8	488.8
65°	438.7	424.7	422.7	424.7	432.7
67.5°	386.6	372.6	368.6	368.6	370.6
70°	332.5	318.5	314.5	312.5	308.5
72.5°	282.4	264.4	262.4	256.4	258.4
75°	228.4	216.3	210.3	206.3	202.3
77.5°	180.3	170.3	162.3	156.2	156.2
80°	138.2	124.2	120.2	112.2	112.2
82.5°	92.1	86.1	78.1	72.1	70.1
85°	54.1	48.1	42.1	36.1	36.1
87.5°	20.0	16.0	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)