

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: P229655

Luminaire Tested: **22RLN-LD5-44-UNV-L835-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229655
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-LD5-44-UNV-L835-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR
Light Source: (126)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4253.0 lumens
Efficiency: N/A
Efficacy: 107.4 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

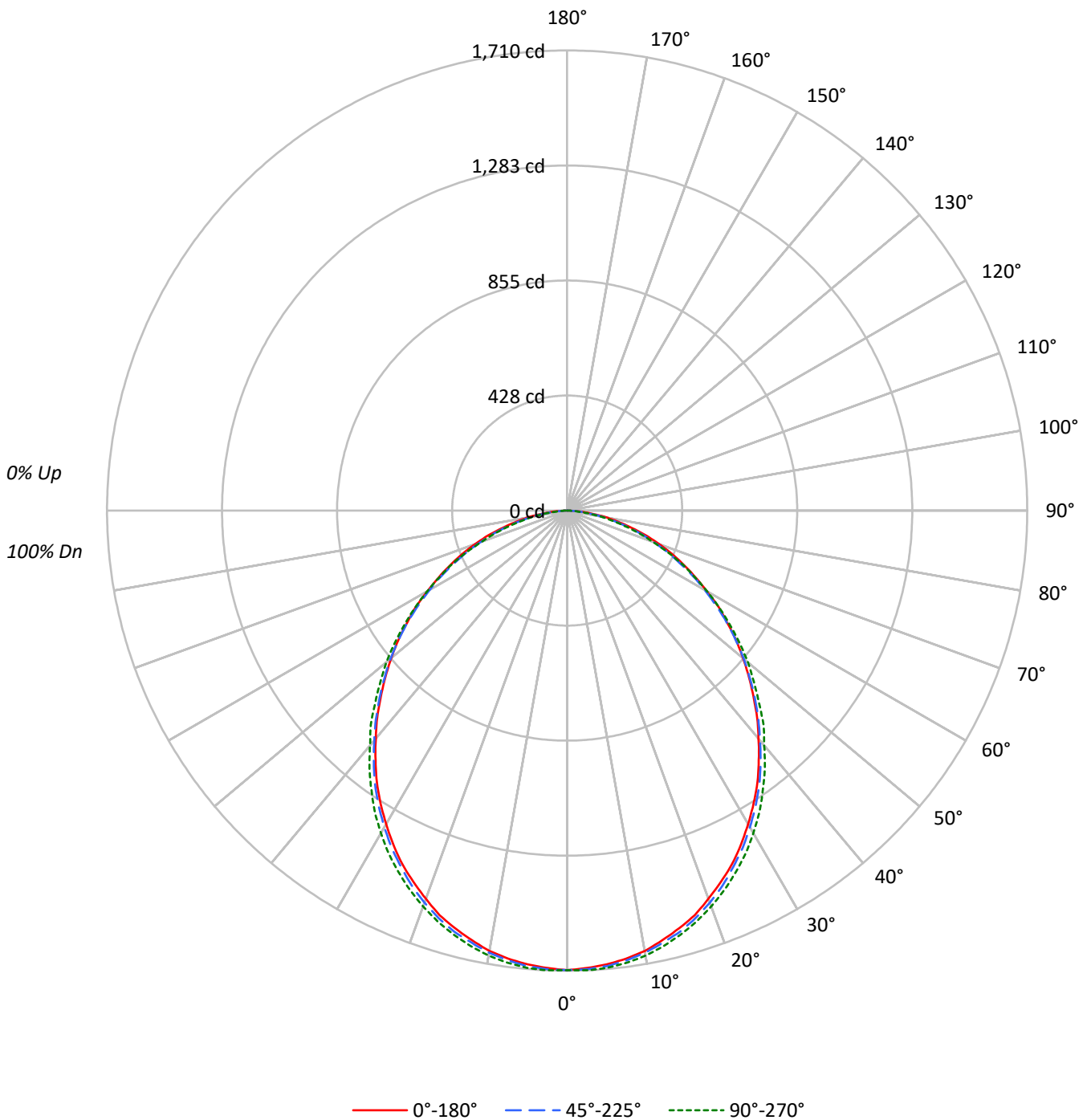
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5469	5469	5469
5°	5441	5462	5483
10°	5405	5426	5461
15°	5329	5372	5409
20°	5232	5284	5336
25°	5123	5162	5239
30°	4973	5022	5119
35°	4822	4864	4959
40°	4626	4662	4763
45°	4437	4467	4566
50°	4249	4271	4369
55°	4054	4041	4115
60°	3838	3782	3851
65°	3629	3496	3579
70°	3399	3215	3153
75°	3085	2841	2733
80°	2783	2420	2259
85°	2168	1687	1448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	3.8
10°-20°	456.3	10.7
20°-30°	673.8	15.8
30°-40°	779.1	18.3
40°-50°	764.2	18.0
50°-60°	649.9	15.3
60°-70°	463.0	10.9
70°-80°	247.0	5.8
80°-90°	58.7	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°	1291.2	30.4
0°-40°	2070.3	48.7
0°-60°	3484.4	81.9
0°-90°	4253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1708	1708	1708	1708	1708	
5°	1692	1695	1699	1703	1706	161
15°	1607	1609	1620	1629	1631	453
25°	1450	1452	1461	1476	1483	667
35°	1233	1229	1244	1264	1268	770
45°	980	977	986	1004	1008	756
55°	726	719	724	732	737	651
65°	479	464	461	464	472	475
75°	249	236	230	225	221	267
85°	59	52	46	39	39	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1707.8	1707.8	1707.8	1707.8	1707.8
2.5°	1701.2	1703.4	1705.6	1710.0	1710.0
5°	1692.5	1694.7	1699.1	1703.4	1705.6
7.5°	1679.4	1679.4	1685.9	1690.3	1694.7
10°	1661.9	1664.1	1668.4	1675.0	1679.4
12.5°	1635.6	1640.0	1644.4	1653.1	1657.5
15°	1607.2	1609.4	1620.3	1629.1	1631.3
17.5°	1576.6	1576.6	1587.5	1596.3	1600.7
20°	1535.1	1539.4	1550.4	1561.3	1565.7
22.5°	1493.5	1497.9	1508.8	1519.7	1526.3
25°	1449.8	1452.0	1460.7	1476.0	1482.6
27.5°	1399.5	1403.9	1412.6	1427.9	1436.7
30°	1344.8	1349.2	1357.9	1375.4	1384.2
32.5°	1290.1	1294.5	1303.3	1320.8	1329.5
35°	1233.3	1228.9	1244.2	1263.9	1268.3
37.5°	1169.9	1172.1	1180.8	1198.3	1207.1
40°	1106.5	1106.5	1115.2	1134.9	1139.3
42.5°	1045.2	1043.1	1051.8	1069.3	1080.2
45°	979.6	977.4	986.2	1003.7	1008.1
47.5°	916.2	911.8	920.6	935.9	940.3
50°	852.8	848.4	857.2	870.3	876.9
52.5°	791.6	782.8	789.4	800.3	806.9
55°	726.0	719.4	723.8	732.5	736.9
57.5°	666.9	653.8	656.0	664.8	669.1
60°	599.2	588.2	590.4	599.2	601.3
62.5°	537.9	527.0	527.0	529.2	533.6
65°	478.9	463.6	461.4	463.6	472.3
67.5°	422.0	406.7	402.4	402.4	404.5
70°	363.0	347.7	343.3	341.1	336.7
72.5°	308.3	288.6	286.5	279.9	282.1
75°	249.3	236.2	229.6	225.2	220.9
77.5°	196.8	185.9	177.1	170.6	170.6
80°	150.9	135.6	131.2	122.5	122.5
82.5°	100.6	94.0	85.3	78.7	76.5
85°	59.0	52.5	45.9	39.4	39.4
87.5°	21.9	17.5	15.3	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)