

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: P295824

Luminaire Tested: **24RLN-LD5-42-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-42-UNV-L83050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4214.0 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

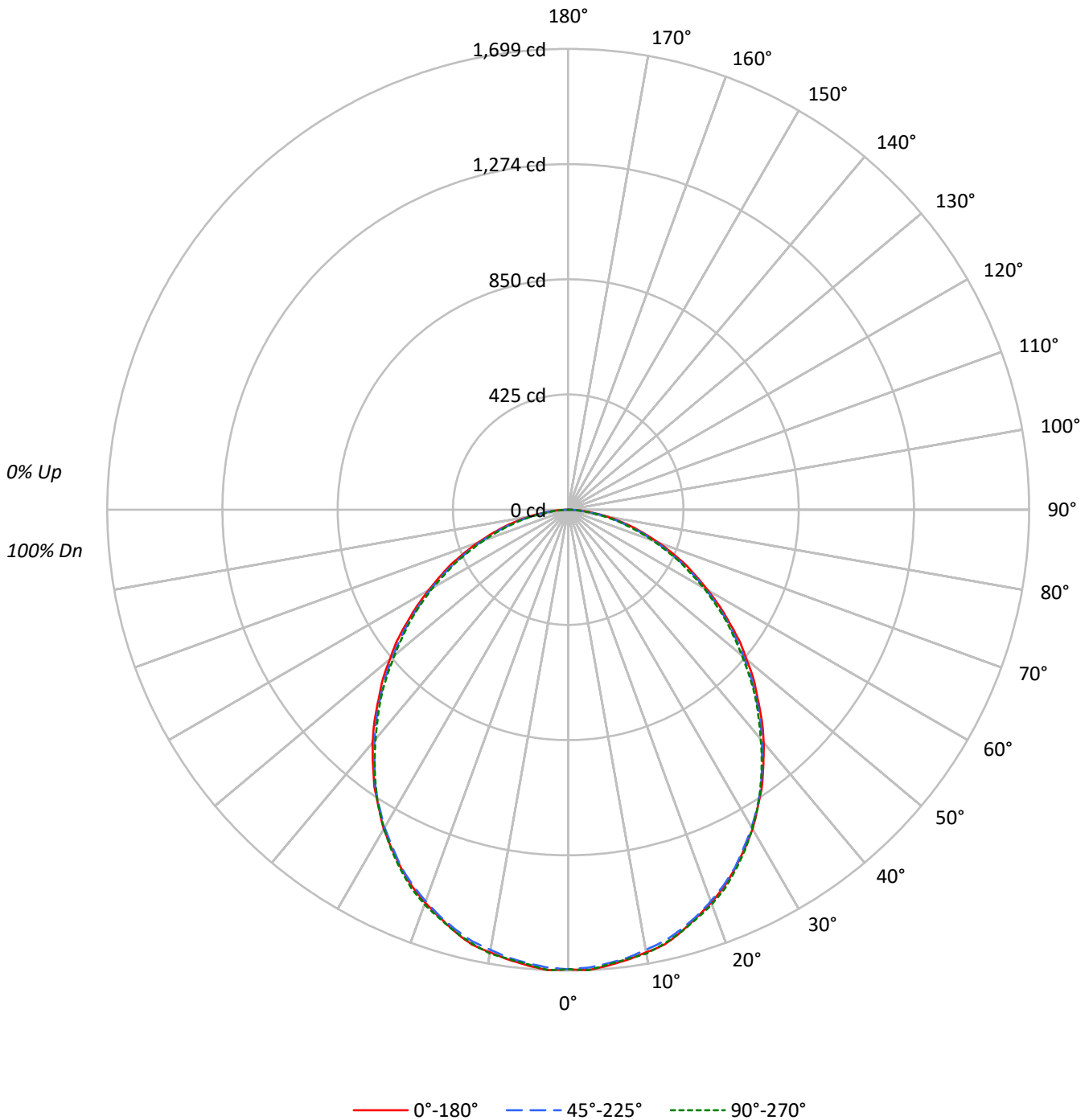
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	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°	2279	2279	2279
5°	2279	2268	2273
10°	2264	2251	2270
15°	2244	2233	2244
20°	2207	2200	2217
25°	2164	2159	2172
30°	2112	2102	2108
35°	2045	2036	2032
40°	1970	1951	1939
45°	1881	1862	1855
50°	1796	1767	1747
55°	1700	1674	1658
60°	1599	1569	1551
65°	1511	1454	1441
70°	1385	1332	1305
75°	1272	1195	1145
80°	1117	1043	979
85°	903	840	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	3.8
10°-20°	453.1	10.8
20°-30°	670.2	15.9
30°-40°	773.5	18.4
40°-50°	755.5	17.9
50°-60°	637.9	15.1
60°-70°	454.4	10.8
70°-80°	246.0	5.8
80°-90°	63.5	1.5
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°	1283.1	30.4
0°-40°	2056.7	48.8
0°-60°	3450.1	81.9
0°-90°	4214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1694	1694	1694	1694	1694	
5°	1687	1687	1679	1683	1683	160
15°	1611	1604	1603	1610	1611	454
25°	1457	1449	1455	1460	1463	671
35°	1245	1236	1240	1236	1237	777
45°	988	980	979	975	975	764
55°	725	715	714	707	707	650
65°	474	465	457	451	453	468
75°	245	236	230	224	220	259
85°	58	57	54	48	46	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1693.9	1693.9	1693.9	1693.9	1693.9
2.5°	1699.3	1692.5	1689.8	1691.2	1699.3
5°	1687.1	1687.1	1679.0	1683.0	1683.0
7.5°	1673.5	1674.9	1666.7	1673.5	1670.8
10°	1657.2	1653.1	1647.7	1658.6	1661.3
12.5°	1642.2	1632.7	1630.0	1636.8	1638.2
15°	1611.0	1604.2	1602.8	1609.6	1611.0
17.5°	1575.6	1577.0	1571.6	1581.1	1579.7
20°	1541.6	1538.9	1536.2	1547.1	1548.4
22.5°	1503.6	1495.4	1498.1	1507.7	1510.4
25°	1457.4	1449.2	1454.6	1460.1	1462.8
27.5°	1408.4	1404.3	1403.0	1409.8	1412.5
30°	1359.5	1352.7	1352.7	1360.8	1356.8
32.5°	1299.7	1294.2	1296.9	1299.7	1301.0
35°	1245.3	1235.8	1239.8	1235.8	1237.1
37.5°	1181.4	1174.6	1173.2	1171.9	1171.9
40°	1121.6	1116.1	1110.7	1110.7	1103.9
42.5°	1056.3	1049.5	1046.8	1042.7	1038.6
45°	988.3	980.2	978.8	974.7	974.7
47.5°	927.2	914.9	913.6	905.4	905.4
50°	857.8	849.7	844.2	838.8	834.7
52.5°	795.3	787.1	779.0	773.5	769.5
55°	724.6	715.1	713.7	706.9	706.9
57.5°	660.7	652.5	647.1	639.0	640.3
60°	594.1	585.9	583.2	576.4	576.4
62.5°	531.6	524.8	520.7	513.9	508.4
65°	474.5	464.9	456.8	451.3	452.7
67.5°	411.9	401.0	397.0	391.5	387.5
70°	352.1	345.3	338.5	331.7	331.7
72.5°	296.4	289.6	285.5	277.3	274.6
75°	244.7	236.5	229.8	224.3	220.2
77.5°	193.0	184.9	180.8	174.0	174.0
80°	144.1	138.7	134.6	131.9	126.4
82.5°	99.2	96.5	92.4	88.4	84.3
85°	58.5	57.1	54.4	47.6	46.2
87.5°	23.1	23.1	20.4	19.0	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)