

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: P295872

Luminaire Tested: **24RLN-LD5-36-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295872
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-LD5-36-UNV-L82765-W2A1-U-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3370.0 lumens
Efficiency: N/A
Efficacy: 133.7 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

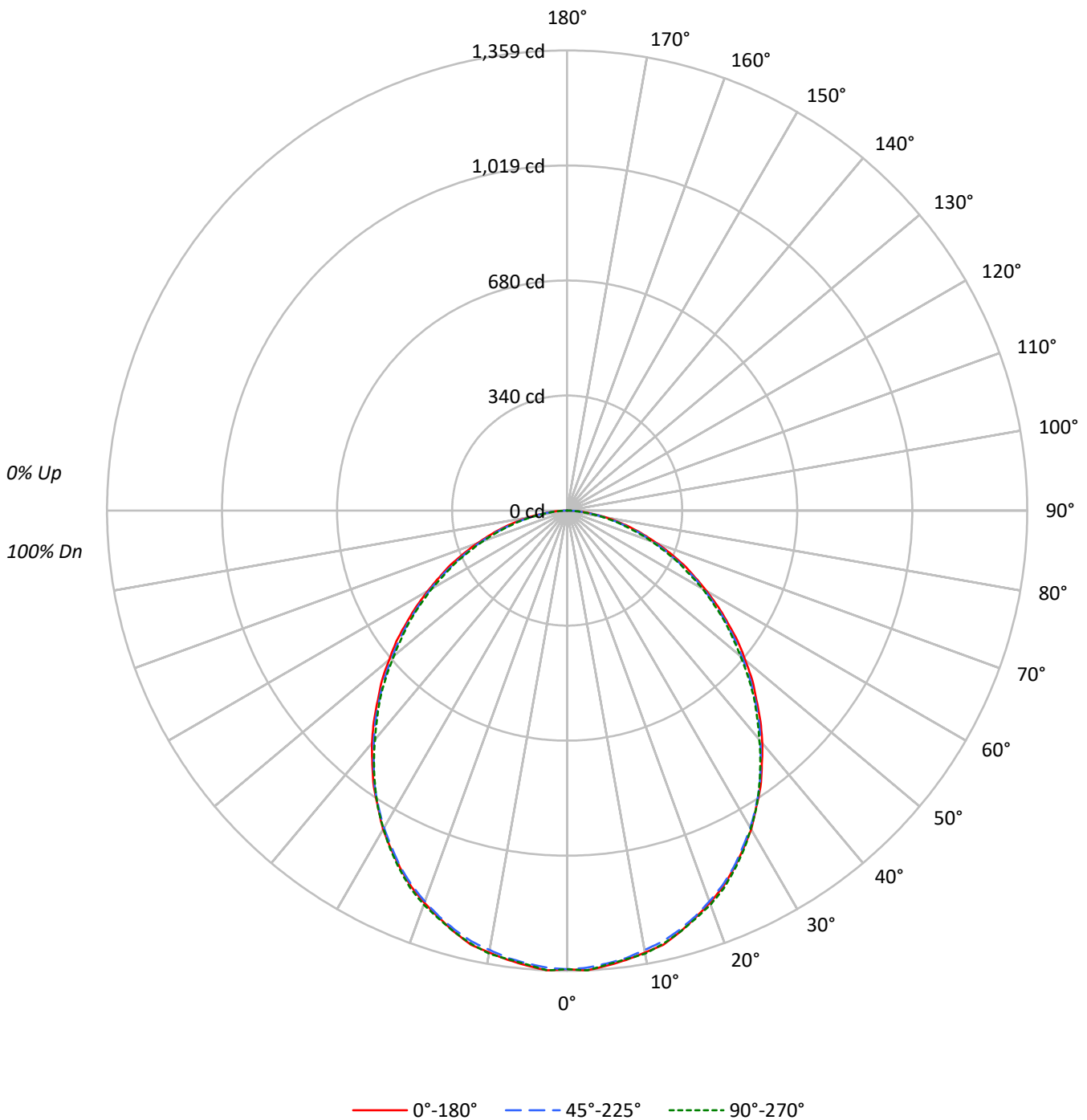
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1823	1823	1823
5°	1822	1813	1818
10°	1811	1800	1815
15°	1795	1785	1795
20°	1765	1759	1773
25°	1730	1727	1737
30°	1689	1681	1686
35°	1636	1629	1625
40°	1575	1560	1551
45°	1504	1490	1483
50°	1436	1413	1397
55°	1359	1339	1326
60°	1278	1255	1241
65°	1208	1163	1152
70°	1108	1065	1044
75°	1017	955	915
80°	893	834	783
85°	721	672	571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	3.8
10°-20°	362.3	10.8
20°-30°	536.0	15.9
30°-40°	618.6	18.4
40°-50°	604.2	17.9
50°-60°	510.2	15.1
60°-70°	363.4	10.8
70°-80°	196.8	5.8
80°-90°	50.8	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°	1026.1	30.4
0°-40°	1644.7	48.8
0°-60°	2759.1	81.9
0°-90°	3370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1349	1349	1343	1346	1346	128
15°	1288	1283	1282	1287	1288	363
25°	1166	1159	1163	1168	1170	537
35°	996	988	992	988	989	622
45°	790	784	783	780	780	611
55°	580	572	571	565	565	520
65°	379	372	365	361	362	374
75°	196	189	184	179	176	207
85°	47	46	44	38	37	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1354.6	1354.6	1354.6	1354.6	1354.6
2.5°	1359.0	1353.6	1351.4	1352.5	1359.0
5°	1349.2	1349.2	1342.7	1345.9	1345.9
7.5°	1338.3	1339.4	1332.9	1338.3	1336.2
10°	1325.3	1322.0	1317.7	1326.4	1328.6
12.5°	1313.3	1305.7	1303.5	1309.0	1310.1
15°	1288.3	1282.9	1281.8	1287.2	1288.3
17.5°	1260.1	1261.1	1256.8	1264.4	1263.3
20°	1232.9	1230.7	1228.5	1237.2	1238.3
22.5°	1202.4	1195.9	1198.1	1205.7	1207.9
25°	1165.5	1158.9	1163.3	1167.6	1169.8
27.5°	1126.3	1123.1	1122.0	1127.4	1129.6
30°	1087.2	1081.8	1081.8	1088.3	1085.0
32.5°	1039.4	1035.0	1037.2	1039.4	1040.4
35°	995.9	988.3	991.5	988.3	989.3
37.5°	944.8	939.3	938.2	937.2	937.2
40°	896.9	892.6	888.2	888.2	882.8
42.5°	844.7	839.3	837.1	833.9	830.6
45°	790.4	783.9	782.8	779.5	779.5
47.5°	741.5	731.7	730.6	724.1	724.1
50°	686.0	679.5	675.1	670.8	667.5
52.5°	636.0	629.5	623.0	618.6	615.4
55°	579.5	571.9	570.8	565.3	565.3
57.5°	528.4	521.9	517.5	511.0	512.1
60°	475.1	468.6	466.4	461.0	461.0
62.5°	425.1	419.7	416.4	411.0	406.6
65°	379.4	371.8	365.3	360.9	362.0
67.5°	329.4	320.7	317.5	313.1	309.9
70°	281.6	276.1	270.7	265.3	265.3
72.5°	237.0	231.6	228.3	221.8	219.6
75°	195.7	189.2	183.7	179.4	176.1
77.5°	154.4	147.9	144.6	139.2	139.2
80°	115.2	110.9	107.6	105.5	101.1
82.5°	79.4	77.2	73.9	70.7	67.4
85°	46.7	45.7	43.5	38.1	37.0
87.5°	18.5	18.5	16.3	15.2	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)