

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: P295868

Luminaire Tested: **24RLN-LD5-31-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295868
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-LD5-31-UNV-L82765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3192.0 lumens
Efficiency: N/A
Efficacy: 147.3 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

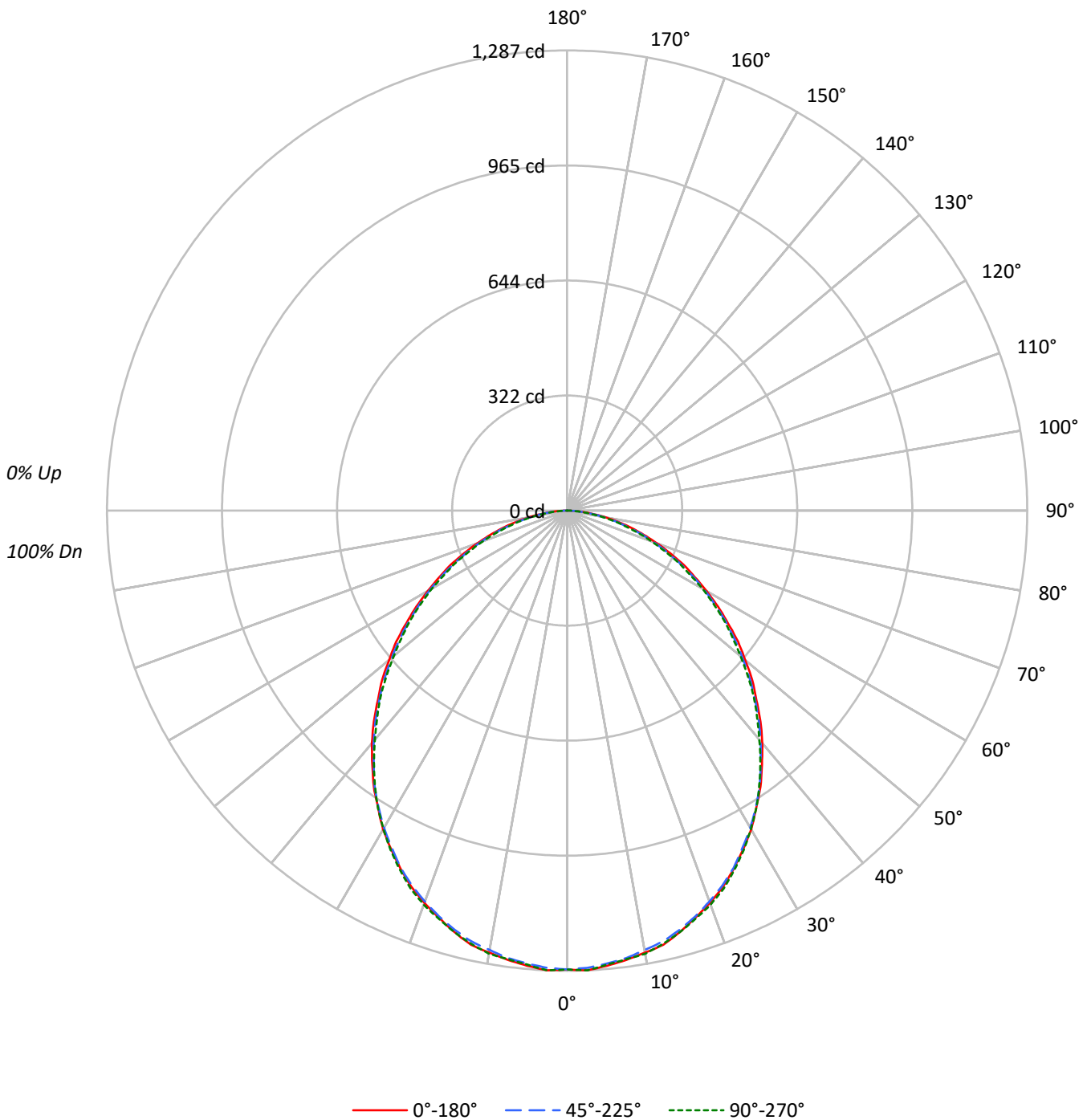
Input Watts (W): 21.669
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1726	1726	1726
5°	1726	1718	1722
10°	1715	1705	1719
15°	1700	1691	1700
20°	1672	1666	1679
25°	1639	1636	1645
30°	1600	1592	1597
35°	1549	1543	1539
40°	1492	1478	1469
45°	1424	1411	1405
50°	1360	1339	1324
55°	1288	1268	1256
60°	1211	1189	1175
65°	1144	1102	1092
70°	1049	1009	989
75°	964	905	867
80°	846	790	742
85°	684	636	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	3.8
10°-20°	343.2	10.8
20°-30°	507.7	15.9
30°-40°	585.9	18.4
40°-50°	572.2	17.9
50°-60°	483.2	15.1
60°-70°	344.2	10.8
70°-80°	186.4	5.8
80°-90°	48.1	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°	971.9	30.4
0°-40°	1557.9	48.8
0°-60°	2613.3	81.9
0°-90°	3192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1283	1283	1283	1283	1283	
5°	1278	1278	1272	1275	1275	121
15°	1220	1215	1214	1219	1220	344
25°	1104	1098	1102	1106	1108	508
35°	943	936	939	936	937	589
45°	749	742	741	738	738	579
55°	549	542	541	536	536	492
65°	359	352	346	342	343	354
75°	185	179	174	170	167	196
85°	44	43	41	36	35	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.1	1283.1	1283.1	1283.1	1283.1
2.5°	1287.2	1282.1	1280.0	1281.0	1287.2
5°	1277.9	1277.9	1271.8	1274.9	1274.9
7.5°	1267.6	1268.7	1262.5	1267.6	1265.6
10°	1255.3	1252.2	1248.1	1256.3	1258.4
12.5°	1244.0	1236.8	1234.7	1239.8	1240.9
15°	1220.3	1215.1	1214.1	1219.2	1220.3
17.5°	1193.5	1194.5	1190.4	1197.6	1196.6
20°	1167.8	1165.7	1163.6	1171.9	1172.9
22.5°	1138.9	1132.7	1134.8	1142.0	1144.1
25°	1103.9	1097.7	1101.9	1106.0	1108.0
27.5°	1066.8	1063.8	1062.7	1067.9	1069.9
30°	1029.8	1024.6	1024.6	1030.8	1027.7
32.5°	984.5	980.3	982.4	984.5	985.5
35°	943.3	936.1	939.2	936.1	937.1
37.5°	894.9	889.7	888.7	887.7	887.7
40°	849.6	845.4	841.3	841.3	836.2
42.5°	800.1	795.0	792.9	789.8	786.7
45°	748.6	742.5	741.4	738.3	738.3
47.5°	702.3	693.0	692.0	685.8	685.8
50°	649.8	643.6	639.5	635.4	632.3
52.5°	602.4	596.2	590.1	585.9	582.8
55°	548.9	541.7	540.6	535.5	535.5
57.5°	500.5	494.3	490.2	484.0	485.0
60°	450.0	443.8	441.8	436.6	436.6
62.5°	402.6	397.5	394.4	389.3	385.1
65°	359.4	352.2	346.0	341.9	342.9
67.5°	312.0	303.8	300.7	296.6	293.5
70°	266.7	261.6	256.4	251.3	251.3
72.5°	224.5	219.3	216.3	210.1	208.0
75°	185.4	179.2	174.0	169.9	166.8
77.5°	146.2	140.0	137.0	131.8	131.8
80°	109.2	105.0	101.9	99.9	95.8
82.5°	75.2	73.1	70.0	66.9	63.8
85°	44.3	43.3	41.2	36.0	35.0
87.5°	17.5	17.5	15.4	14.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)