

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: P296169

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-42-RDP-UNV-L82765-W2A1-U-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3652.0 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

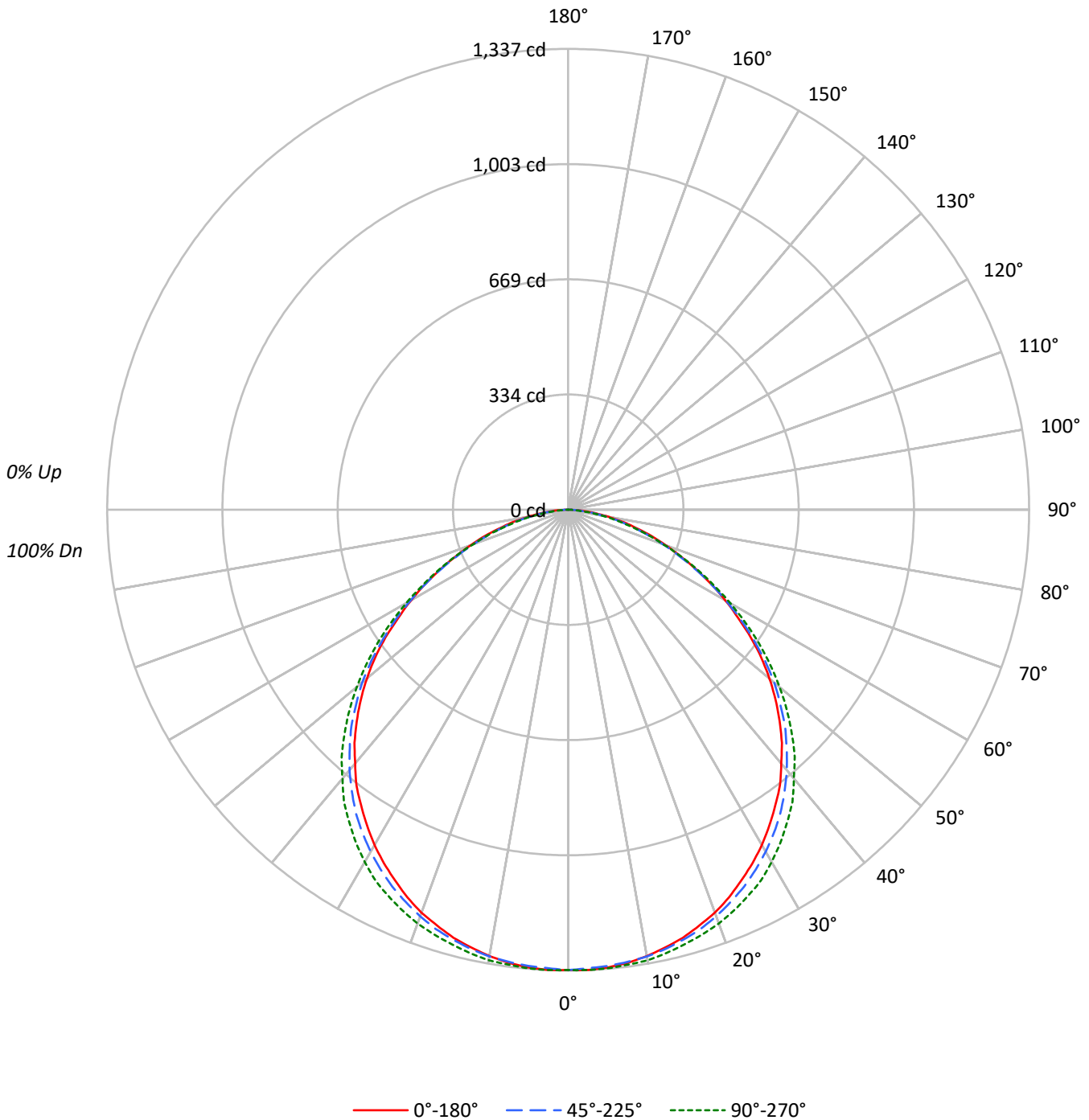
Input Watts (W): 30.411
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1797	1797	1797
5°	1800	1794	1804
10°	1796	1798	1813
15°	1791	1799	1818
20°	1781	1797	1829
25°	1763	1791	1835
30°	1746	1780	1834
35°	1720	1764	1818
40°	1689	1733	1789
45°	1650	1692	1745
50°	1595	1633	1676
55°	1518	1537	1583
60°	1417	1424	1461
65°	1301	1292	1323
70°	1183	1150	1155
75°	1052	994	987
80°	913	816	794
85°	749	577	449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	3.5
10°-20°	365.1	10.0
20°-30°	557.4	15.3
30°-40°	671.9	18.4
40°-50°	685.2	18.8
50°-60°	586.4	16.1
60°-70°	404.0	11.1
70°-80°	207.1	5.7
80°-90°	48.2	1.3
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°	1049.2	28.7
0°-40°	1721.1	47.1
0°-60°	2992.8	81.9
0°-90°	3652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1333	1330	1329	1333	1336	127
15°	1286	1284	1291	1301	1305	363
25°	1187	1192	1207	1228	1236	548
35°	1047	1052	1074	1097	1107	655
45°	867	869	889	912	917	668
55°	647	643	655	669	675	577
65°	409	399	406	409	416	406
75°	202	194	191	191	190	218
85°	48	43	37	33	29	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1335.6	1335.6	1335.6	1335.6	1335.6
2.5°	1336.9	1334.2	1331.4	1334.2	1336.9
5°	1332.8	1330.0	1328.6	1332.8	1335.6
7.5°	1325.9	1323.1	1323.1	1328.6	1331.4
10°	1314.8	1313.4	1316.2	1321.7	1327.2
12.5°	1300.9	1300.9	1305.1	1312.0	1317.5
15°	1285.7	1284.3	1291.2	1300.9	1305.1
17.5°	1264.9	1266.3	1276.0	1287.1	1292.6
20°	1244.1	1245.5	1255.2	1270.4	1277.4
22.5°	1217.8	1220.6	1231.6	1251.0	1258.0
25°	1187.3	1191.5	1206.7	1227.5	1235.8
27.5°	1156.8	1161.0	1177.6	1201.2	1212.2
30°	1123.6	1129.1	1145.7	1170.7	1180.4
32.5°	1086.2	1090.3	1111.1	1136.0	1145.7
35°	1047.4	1051.5	1073.7	1097.3	1107.0
37.5°	1008.6	1008.6	1030.8	1058.5	1068.2
40°	961.5	962.9	986.4	1012.7	1018.3
42.5°	917.2	917.2	937.9	962.9	972.6
45°	867.3	868.7	889.4	911.6	917.2
47.5°	816.0	816.0	834.0	854.8	860.3
50°	762.0	759.2	780.0	796.6	800.8
52.5°	706.6	702.4	719.0	732.9	738.4
55°	647.0	642.8	655.3	669.2	674.7
57.5°	584.6	579.1	593.0	605.4	608.2
60°	526.5	518.1	529.2	536.2	543.1
62.5°	468.3	458.6	466.9	471.0	476.6
65°	408.7	399.0	405.9	408.7	415.6
67.5°	351.9	345.0	346.4	350.5	353.3
70°	300.6	292.3	292.3	292.3	293.7
72.5°	253.5	241.1	239.7	241.1	241.1
75°	202.3	194.0	191.2	191.2	189.8
77.5°	162.1	151.0	149.6	146.9	144.1
80°	117.8	108.1	105.3	103.9	102.5
82.5°	81.7	73.4	70.7	67.9	63.7
85°	48.5	42.9	37.4	33.3	29.1
87.5°	18.0	16.6	13.9	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)