

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: P296105

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296105
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-L83050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3669.0 lumens
Efficiency: N/A
Efficacy: 123.3 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

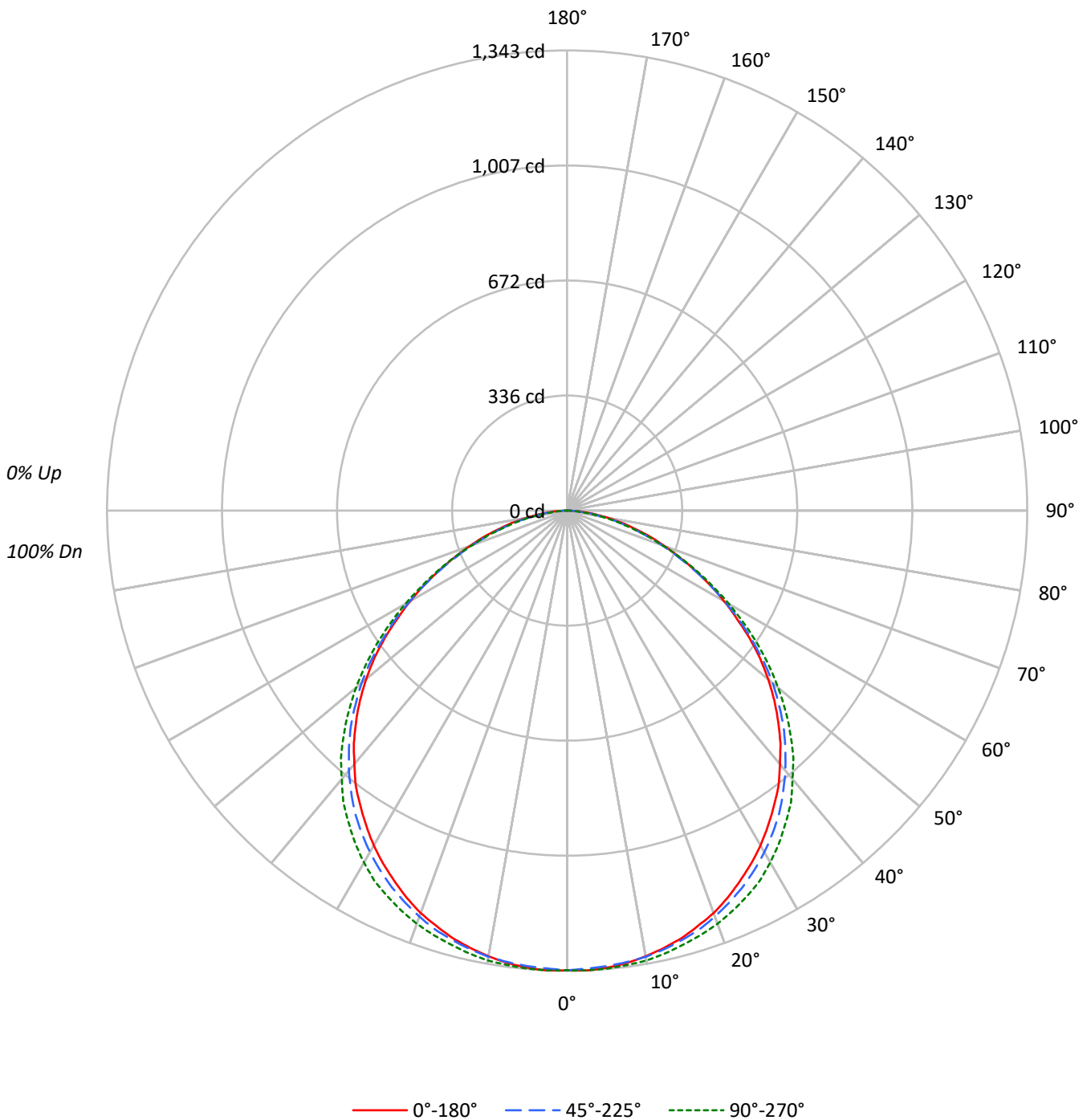
Input Watts (W): 29.76
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1805	1805	1805
5°	1808	1803	1812
10°	1805	1807	1822
15°	1799	1807	1826
20°	1790	1806	1837
25°	1771	1800	1843
30°	1754	1788	1842
35°	1728	1772	1827
40°	1697	1741	1797
45°	1658	1700	1753
50°	1602	1640	1684
55°	1525	1544	1590
60°	1423	1431	1468
65°	1307	1298	1330
70°	1188	1155	1161
75°	1056	999	991
80°	917	820	798
85°	752	580	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	3.5
10°-20°	366.8	10.0
20°-30°	560.0	15.3
30°-40°	675.1	18.4
40°-50°	688.4	18.8
50°-60°	589.2	16.1
60°-70°	405.8	11.1
70°-80°	208.1	5.7
80°-90°	48.4	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°	1054.1	28.7
0°-40°	1729.1	47.1
0°-60°	3006.7	81.9
0°-90°	3669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1339	1336	1335	1339	1342	127
15°	1292	1290	1297	1307	1311	364
25°	1193	1197	1212	1233	1242	550
35°	1052	1056	1079	1102	1112	658
45°	871	873	894	916	921	671
55°	650	646	658	672	678	580
65°	411	401	408	411	418	408
75°	203	195	192	192	191	219
85°	49	43	38	33	29	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1341.8	1341.8	1341.8	1341.8	1341.8
2.5°	1343.2	1340.4	1337.6	1340.4	1343.2
5°	1339.0	1336.2	1334.8	1339.0	1341.8
7.5°	1332.0	1329.2	1329.2	1334.8	1337.6
10°	1320.9	1319.5	1322.3	1327.8	1333.4
12.5°	1307.0	1307.0	1311.1	1318.1	1323.7
15°	1291.7	1290.3	1297.2	1307.0	1311.1
17.5°	1270.8	1272.2	1281.9	1293.1	1298.6
20°	1249.9	1251.3	1261.0	1276.3	1283.3
22.5°	1223.5	1226.2	1237.4	1256.9	1263.8
25°	1192.8	1197.0	1212.3	1233.2	1241.6
27.5°	1162.2	1166.4	1183.1	1206.8	1217.9
30°	1128.8	1134.4	1151.1	1176.1	1185.9
32.5°	1091.2	1095.4	1116.3	1141.3	1151.1
35°	1052.3	1056.4	1078.7	1102.4	1112.1
37.5°	1013.3	1013.3	1035.6	1063.4	1073.1
40°	966.0	967.4	991.0	1017.5	1023.0
42.5°	921.4	921.4	942.3	967.4	977.1
45°	871.3	872.7	893.6	915.9	921.4
47.5°	819.8	819.8	837.9	858.8	864.4
50°	765.5	762.7	783.6	800.3	804.5
52.5°	709.9	705.7	722.4	736.3	741.9
55°	650.0	645.8	658.4	672.3	677.8
57.5°	587.4	581.8	595.7	608.2	611.0
60°	528.9	520.6	531.7	538.7	545.6
62.5°	470.5	460.7	469.1	473.2	478.8
65°	410.6	400.9	407.8	410.6	417.6
67.5°	353.5	346.6	348.0	352.1	354.9
70°	302.0	293.7	293.7	293.7	295.1
72.5°	254.7	242.2	240.8	242.2	242.2
75°	203.2	194.9	192.1	192.1	190.7
77.5°	162.8	151.7	150.3	147.5	144.8
80°	118.3	108.6	105.8	104.4	103.0
82.5°	82.1	73.8	71.0	68.2	64.0
85°	48.7	43.1	37.6	33.4	29.2
87.5°	18.1	16.7	13.9	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)