

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: P296313

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296313
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-LD5-45-RDP-UNV-L92765-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3330.0 lumens
Efficiency: N/A
Efficacy: 104.4 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

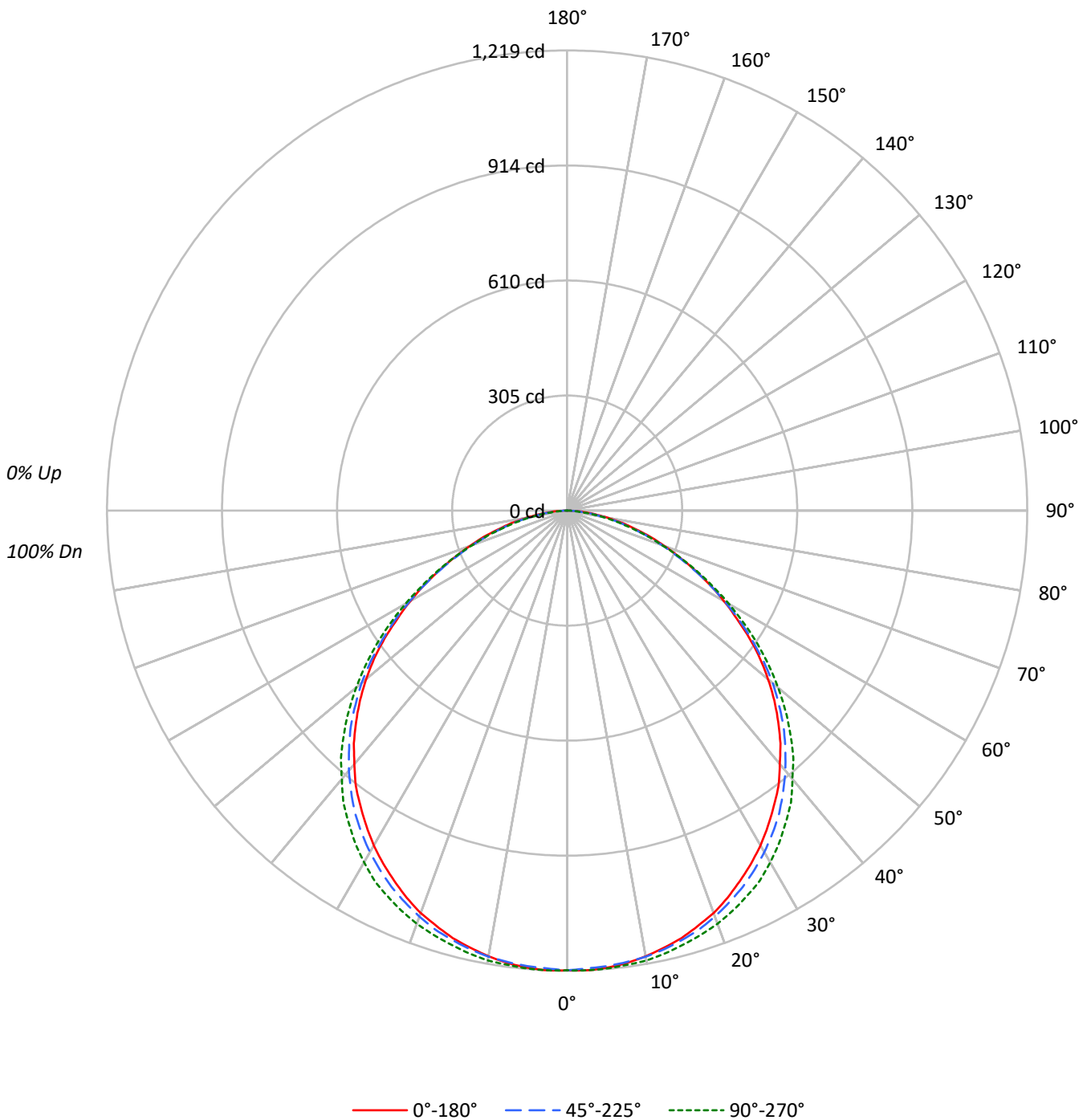
Input Watts (W): 31.899
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1639	1639	1639
5°	1641	1636	1645
10°	1638	1640	1653
15°	1633	1640	1658
20°	1624	1639	1668
25°	1607	1633	1673
30°	1592	1623	1672
35°	1569	1608	1658
40°	1540	1580	1631
45°	1505	1543	1591
50°	1454	1489	1528
55°	1384	1402	1443
60°	1292	1299	1333
65°	1187	1178	1207
70°	1078	1049	1054
75°	959	906	900
80°	832	744	724
85°	682	526	409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	3.5
10°-20°	333.0	10.0
20°-30°	508.2	15.3
30°-40°	612.7	18.4
40°-50°	624.8	18.8
50°-60°	534.7	16.1
60°-70°	368.3	11.1
70°-80°	188.8	5.7
80°-90°	44.0	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°	956.7	28.7
0°-40°	1569.4	47.1
0°-60°	2728.9	81.9
0°-90°	3330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1215	1213	1212	1215	1218	115
15°	1172	1171	1177	1186	1190	331
25°	1083	1086	1100	1119	1127	499
35°	955	959	979	1000	1009	597
45°	791	792	811	831	836	609
55°	590	586	598	610	615	526
65°	373	364	370	373	379	370
75°	184	177	174	174	173	199
85°	44	39	34	30	26	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1219.1	1216.5	1214.0	1216.5	1219.1
5°	1215.3	1212.7	1211.5	1215.3	1217.8
7.5°	1209.0	1206.4	1206.4	1211.5	1214.0
10°	1198.8	1197.6	1200.1	1205.2	1210.2
12.5°	1186.2	1186.2	1190.0	1196.3	1201.4
15°	1172.3	1171.1	1177.4	1186.2	1190.0
17.5°	1153.4	1154.6	1163.5	1173.6	1178.6
20°	1134.4	1135.7	1144.5	1158.4	1164.7
22.5°	1110.4	1112.9	1123.0	1140.7	1147.1
25°	1082.6	1086.4	1100.3	1119.3	1126.8
27.5°	1054.8	1058.6	1073.8	1095.3	1105.4
30°	1024.5	1029.6	1044.7	1067.5	1076.3
32.5°	990.4	994.2	1013.1	1035.9	1044.7
35°	955.0	958.8	979.0	1000.5	1009.4
37.5°	919.7	919.7	939.9	965.1	974.0
40°	876.7	878.0	899.4	923.5	928.5
42.5°	836.3	836.3	855.2	878.0	886.8
45°	790.8	792.1	811.0	831.2	836.3
47.5°	744.1	744.1	760.5	779.4	784.5
50°	694.8	692.3	711.2	726.4	730.2
52.5°	644.3	640.5	655.6	668.3	673.3
55°	589.9	586.2	597.5	610.2	615.2
57.5°	533.1	528.0	540.7	552.0	554.6
60°	480.0	472.5	482.6	488.9	495.2
62.5°	427.0	418.1	425.7	429.5	434.6
65°	372.7	363.8	370.1	372.7	379.0
67.5°	320.9	314.6	315.8	319.6	322.1
70°	274.1	266.6	266.6	266.6	267.8
72.5°	231.2	219.8	218.5	219.8	219.8
75°	184.4	176.9	174.3	174.3	173.1
77.5°	147.8	137.7	136.4	133.9	131.4
80°	107.4	98.5	96.0	94.7	93.5
82.5°	74.5	67.0	64.4	61.9	58.1
85°	44.2	39.2	34.1	30.3	26.5
87.5°	16.4	15.2	12.6	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)