

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: P296320

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296320
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-LD5-50-RDP-UNV-L92765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3372.0 lumens
Efficiency: N/A
Efficacy: 97.5 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

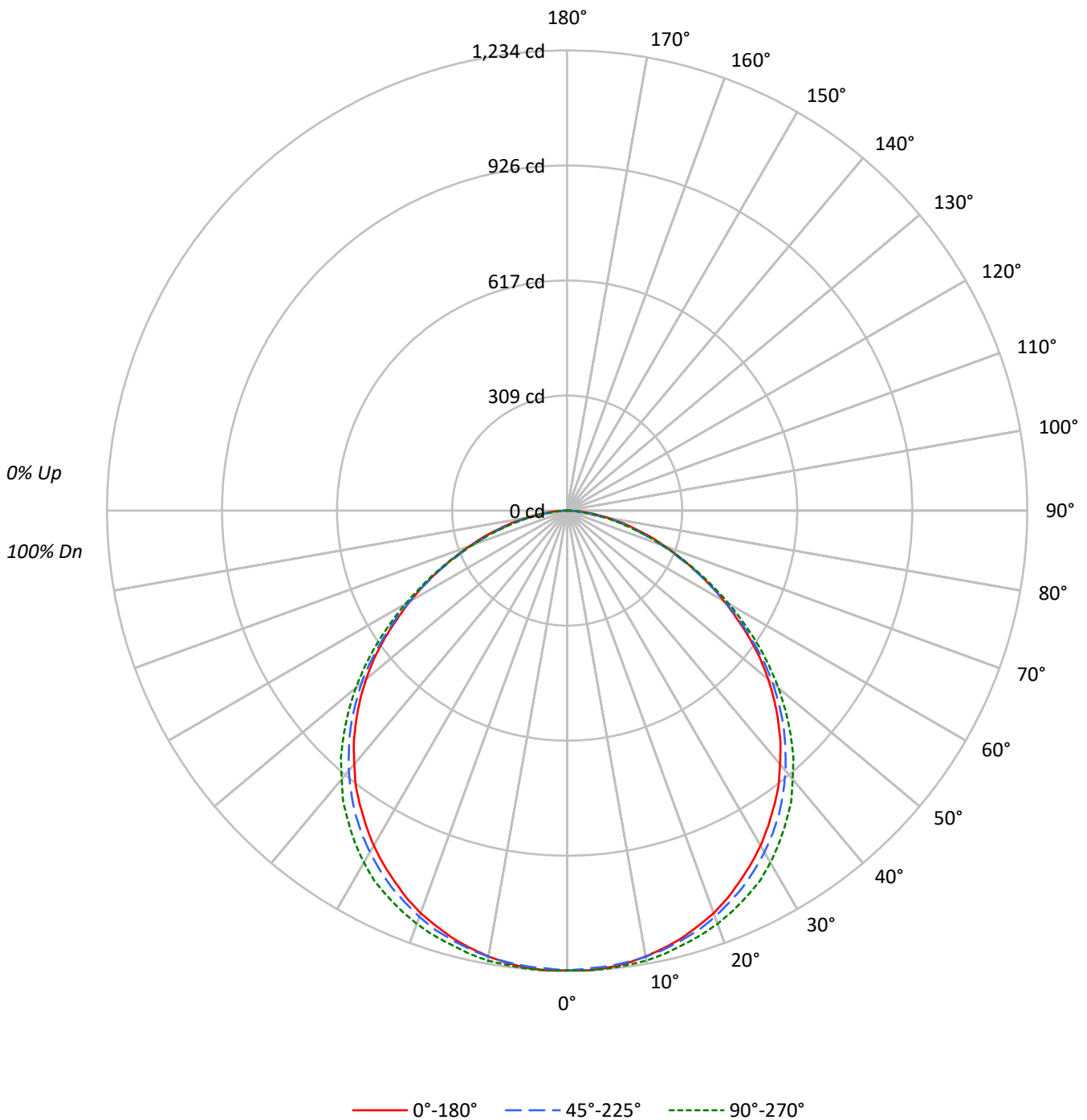
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1659	1659	1659
5°	1662	1657	1666
10°	1659	1660	1674
15°	1654	1661	1679
20°	1645	1660	1689
25°	1628	1654	1694
30°	1612	1644	1693
35°	1588	1628	1679
40°	1559	1600	1651
45°	1524	1563	1611
50°	1473	1508	1548
55°	1401	1419	1461
60°	1308	1315	1349
65°	1202	1193	1222
70°	1092	1062	1067
75°	971	918	911
80°	842	753	734
85°	692	533	415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	3.5
10°-20°	337.2	10.0
20°-30°	514.6	15.3
30°-40°	620.4	18.4
40°-50°	632.7	18.8
50°-60°	541.5	16.1
60°-70°	373.0	11.1
70°-80°	191.2	5.7
80°-90°	44.5	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°	968.7	28.7
0°-40°	1589.1	47.1
0°-60°	2763.3	81.9
0°-90°	3372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1231	1228	1227	1231	1233	117
15°	1187	1186	1192	1201	1205	335
25°	1096	1100	1114	1133	1141	506
35°	967	971	991	1013	1022	605
45°	801	802	821	842	847	617
55°	597	594	605	618	623	533
65°	377	368	375	377	384	375
75°	187	179	176	176	175	201
85°	45	40	34	31	27	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1233.2	1233.2	1233.2	1233.2	1233.2
2.5°	1234.4	1231.9	1229.3	1231.9	1234.4
5°	1230.6	1228.0	1226.8	1230.6	1233.2
7.5°	1224.2	1221.6	1221.6	1226.8	1229.3
10°	1214.0	1212.7	1215.2	1220.4	1225.5
12.5°	1201.2	1201.2	1205.0	1211.4	1216.5
15°	1187.1	1185.8	1192.2	1201.2	1205.0
17.5°	1167.9	1169.2	1178.1	1188.4	1193.5
20°	1148.7	1150.0	1159.0	1173.0	1179.4
22.5°	1124.4	1127.0	1137.2	1155.1	1161.5
25°	1096.3	1100.1	1114.2	1133.4	1141.1
27.5°	1068.1	1072.0	1087.3	1109.1	1119.3
30°	1037.4	1042.6	1057.9	1080.9	1089.9
32.5°	1002.9	1006.7	1025.9	1048.9	1057.9
35°	967.1	970.9	991.4	1013.1	1022.1
37.5°	931.3	931.3	951.7	977.3	986.3
40°	887.8	889.0	910.8	935.1	940.2
42.5°	846.8	846.8	866.0	889.0	898.0
45°	800.8	802.1	821.2	841.7	846.8
47.5°	753.5	753.5	770.1	789.3	794.4
50°	703.6	701.0	720.2	735.5	739.4
52.5°	652.4	648.6	663.9	676.7	681.8
55°	597.4	593.6	605.1	617.9	623.0
57.5°	539.8	534.7	547.5	559.0	561.6
60°	486.1	478.4	488.7	495.1	501.4
62.5°	432.4	423.4	431.1	434.9	440.0
65°	377.4	368.4	374.8	377.4	383.8
67.5°	324.9	318.5	319.8	323.6	326.2
70°	277.6	269.9	269.9	269.9	271.2
72.5°	234.1	222.6	221.3	222.6	222.6
75°	186.8	179.1	176.5	176.5	175.3
77.5°	149.7	139.4	138.2	135.6	133.0
80°	108.7	99.8	97.2	95.9	94.7
82.5°	75.5	67.8	65.2	62.7	58.8
85°	44.8	39.7	34.5	30.7	26.9
87.5°	16.6	15.4	12.8	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)