

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: P296307

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296307
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-L92765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3280.0 lumens
Efficiency: N/A
Efficacy: 109.5 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

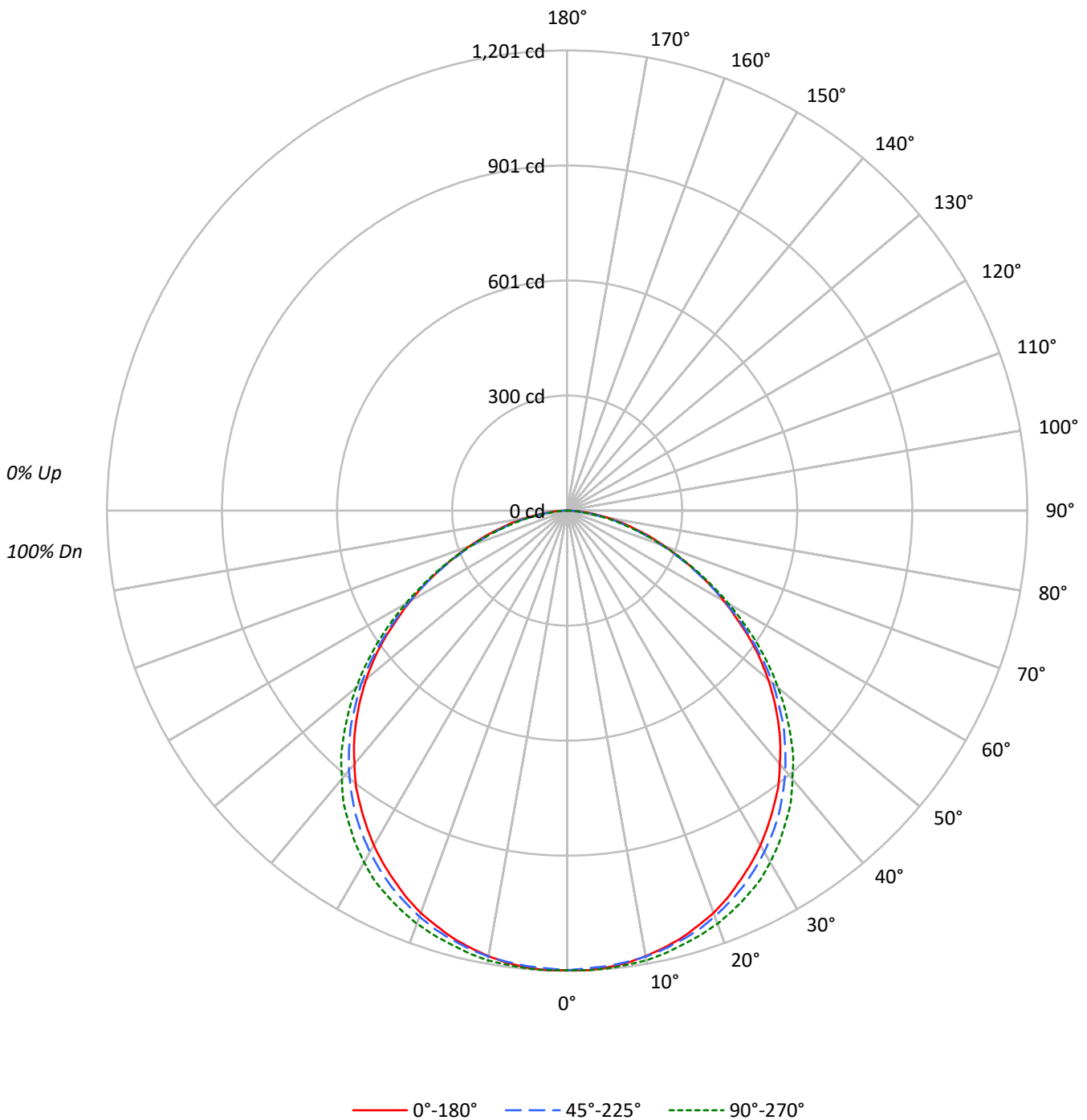
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1614	1614	1614
5°	1617	1612	1620
10°	1613	1615	1629
15°	1608	1615	1633
20°	1600	1614	1643
25°	1583	1609	1648
30°	1568	1599	1647
35°	1545	1584	1633
40°	1517	1556	1606
45°	1482	1520	1567
50°	1433	1466	1505
55°	1363	1381	1422
60°	1272	1279	1313
65°	1169	1161	1188
70°	1062	1033	1038
75°	945	893	886
80°	820	733	714
85°	673	519	403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.5
10°-20°	328.0	10.0
20°-30°	500.6	15.3
30°-40°	603.5	18.4
40°-50°	615.4	18.8
50°-60°	526.7	16.1
60°-70°	362.8	11.1
70°-80°	186.0	5.7
80°-90°	43.3	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°	942.3	28.7
0°-40°	1545.8	47.1
0°-60°	2687.9	81.9
0°-90°	3280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1200	1200	1200	1200	1200	
5°	1197	1194	1193	1197	1200	114
15°	1155	1154	1160	1168	1172	326
25°	1066	1070	1084	1102	1110	492
35°	941	944	964	986	994	589
45°	779	780	799	819	824	600
55°	581	577	589	601	606	518
65°	367	358	365	367	373	365
75°	182	174	172	172	170	196
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°	1199.5	1199.5	1199.5	1199.5	1199.5
2.5°	1200.8	1198.3	1195.8	1198.3	1200.8
5°	1197.0	1194.5	1193.3	1197.0	1199.5
7.5°	1190.8	1188.3	1188.3	1193.3	1195.8
10°	1180.8	1179.6	1182.1	1187.1	1192.0
12.5°	1168.4	1168.4	1172.1	1178.4	1183.3
15°	1154.7	1153.5	1159.7	1168.4	1172.1
17.5°	1136.0	1137.3	1146.0	1156.0	1160.9
20°	1117.4	1118.6	1127.3	1141.0	1147.2
22.5°	1093.7	1096.2	1106.2	1123.6	1129.8
25°	1066.4	1070.1	1083.8	1102.5	1109.9
27.5°	1039.0	1042.7	1057.7	1078.8	1088.8
30°	1009.1	1014.1	1029.0	1051.4	1060.1
32.5°	975.5	979.3	997.9	1020.3	1029.0
35°	940.7	944.4	964.3	985.5	994.2
37.5°	905.9	905.9	925.8	950.6	959.4
40°	863.5	864.8	885.9	909.6	914.6
42.5°	823.7	823.7	842.4	864.8	873.5
45°	778.9	780.2	798.8	818.8	823.7
47.5°	732.9	732.9	749.1	767.7	772.7
50°	684.4	681.9	700.5	715.5	719.2
52.5°	634.6	630.9	645.8	658.2	663.2
55°	581.1	577.4	588.6	601.0	606.0
57.5°	525.1	520.1	532.6	543.8	546.2
60°	472.8	465.4	475.3	481.5	487.8
62.5°	420.6	411.9	419.3	423.1	428.0
65°	367.1	358.4	364.6	367.1	373.3
67.5°	316.1	309.8	311.1	314.8	317.3
70°	270.0	262.5	262.5	262.5	263.8
72.5°	227.7	216.5	215.3	216.5	216.5
75°	181.7	174.2	171.7	171.7	170.5
77.5°	145.6	135.6	134.4	131.9	129.4
80°	105.8	97.1	94.6	93.3	92.1
82.5°	73.4	65.9	63.5	61.0	57.2
85°	43.6	38.6	33.6	29.9	26.1
87.5°	16.2	14.9	12.4	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)