

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: P296180

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296180
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-L82765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3907.0 lumens
Efficiency: N/A
Efficacy: 112.6 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

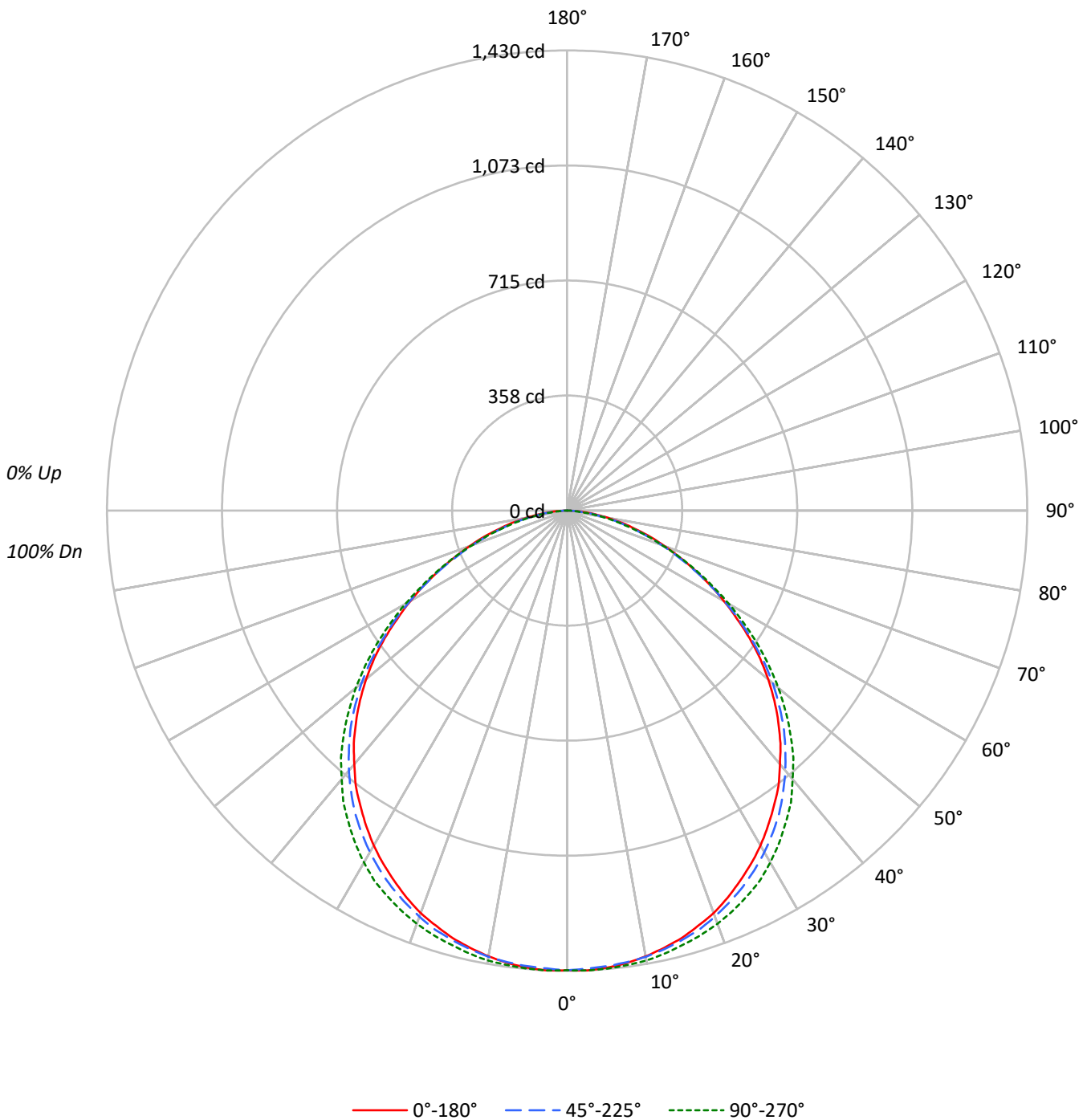
Input Watts (W): 34.689
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1922	1922	1922
5°	1926	1920	1930
10°	1922	1924	1940
15°	1916	1924	1945
20°	1906	1923	1957
25°	1886	1917	1963
30°	1867	1904	1962
35°	1840	1887	1945
40°	1807	1854	1913
45°	1765	1811	1867
50°	1706	1747	1793
55°	1624	1645	1693
60°	1516	1524	1563
65°	1392	1383	1415
70°	1265	1230	1236
75°	1125	1063	1056
80°	976	872	850
85°	801	618	480



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	3.5
10°-20°	390.6	10.0
20°-30°	596.3	15.3
30°-40°	718.9	18.4
40°-50°	733.1	18.8
50°-60°	627.4	16.1
60°-70°	432.2	11.1
70°-80°	221.5	5.7
80°-90°	51.6	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°	1122.4	28.7
0°-40°	1841.3	47.1
0°-60°	3201.7	81.9
0°-90°	3907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1429	1429	1429	1429	1429	
5°	1426	1423	1421	1426	1429	135
15°	1375	1374	1381	1392	1396	388
25°	1270	1275	1291	1313	1322	586
35°	1120	1125	1149	1174	1184	701
45°	928	929	952	975	981	715
55°	692	688	701	716	722	617
65°	437	427	434	437	445	434
75°	216	208	204	204	203	233
85°	52	46	40	36	31	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1428.8	1428.8	1428.8	1428.8	1428.8
2.5°	1430.3	1427.3	1424.4	1427.3	1430.3
5°	1425.8	1422.9	1421.4	1425.8	1428.8
7.5°	1418.4	1415.5	1415.5	1421.4	1424.4
10°	1406.6	1405.1	1408.1	1414.0	1419.9
12.5°	1391.8	1391.8	1396.2	1403.6	1409.5
15°	1375.4	1374.0	1381.4	1391.8	1396.2
17.5°	1353.2	1354.7	1365.1	1376.9	1382.9
20°	1331.0	1332.5	1342.8	1359.1	1366.6
22.5°	1302.8	1305.8	1317.6	1338.4	1345.8
25°	1270.2	1274.7	1291.0	1313.2	1322.1
27.5°	1237.6	1242.1	1259.8	1285.0	1296.9
30°	1202.0	1208.0	1225.7	1252.4	1262.8
32.5°	1162.0	1166.5	1188.7	1215.4	1225.7
35°	1120.5	1125.0	1148.7	1173.9	1184.2
37.5°	1079.0	1079.0	1102.7	1132.4	1142.7
40°	1028.6	1030.1	1055.3	1083.5	1089.4
42.5°	981.2	981.2	1003.4	1030.1	1040.5
45°	927.8	929.3	951.5	975.3	981.2
47.5°	873.0	873.0	892.3	914.5	920.4
50°	815.2	812.2	834.5	852.2	856.7
52.5°	755.9	751.5	769.2	784.1	790.0
55°	692.2	687.7	701.1	715.9	721.8
57.5°	625.5	619.5	634.4	647.7	650.7
60°	563.2	554.3	566.2	573.6	581.0
62.5°	501.0	490.6	499.5	503.9	509.9
65°	437.2	426.9	434.3	437.2	444.6
67.5°	376.5	369.1	370.5	375.0	378.0
70°	321.6	312.7	312.7	312.7	314.2
72.5°	271.2	257.9	256.4	257.9	257.9
75°	216.4	207.5	204.5	204.5	203.1
77.5°	173.4	161.6	160.1	157.1	154.1
80°	126.0	115.6	112.6	111.2	109.7
82.5°	87.4	78.6	75.6	72.6	68.2
85°	51.9	45.9	40.0	35.6	31.1
87.5°	19.3	17.8	14.8	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)