

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: P296115

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296115
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-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: 4345.0 lumens
Efficiency: N/A
Efficacy: 121.4 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

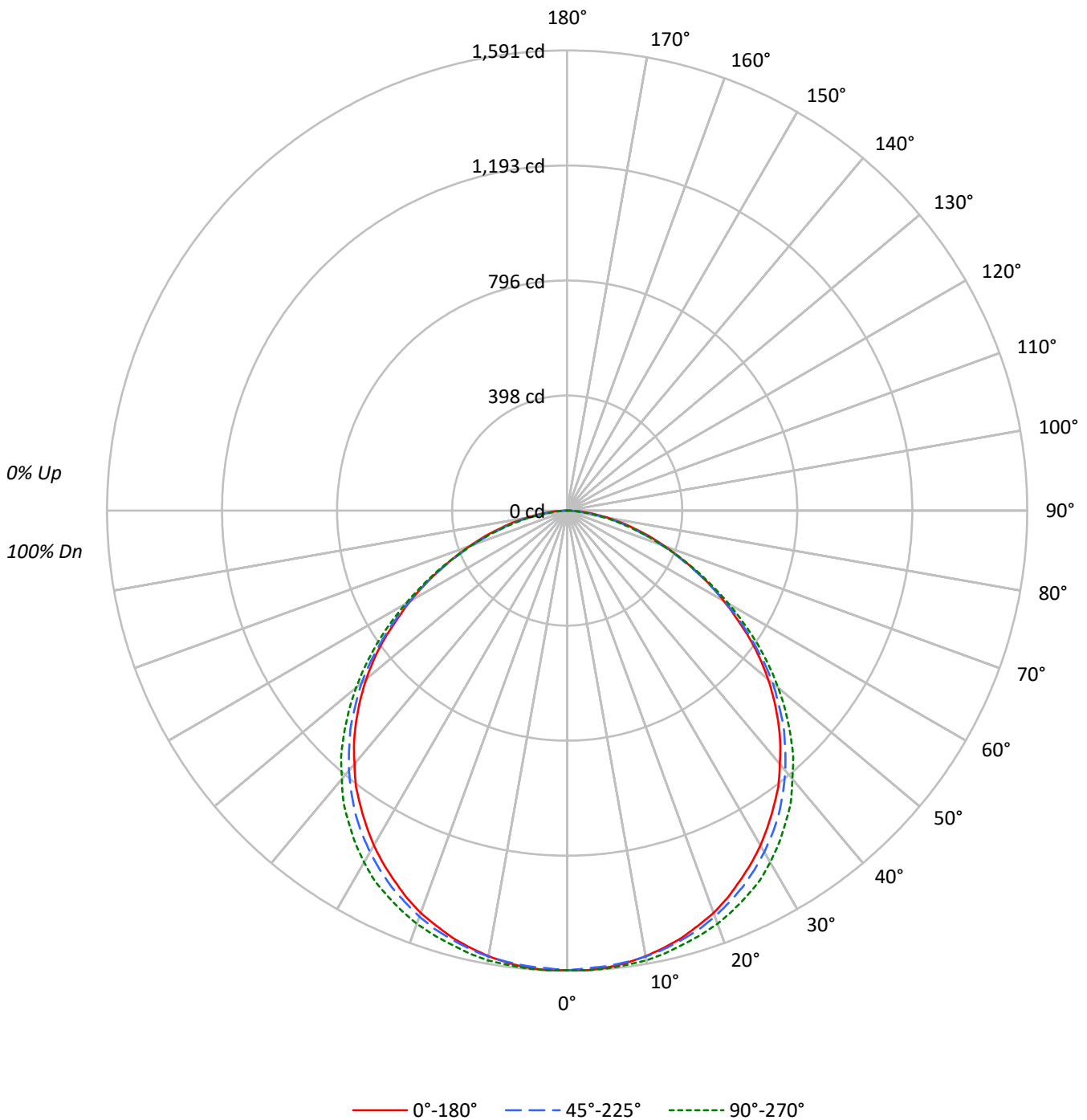
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2138	2138	2138
5°	2142	2135	2146
10°	2137	2139	2157
15°	2131	2140	2163
20°	2119	2138	2176
25°	2097	2131	2183
30°	2077	2118	2182
35°	2047	2098	2163
40°	2009	2061	2128
45°	1963	2014	2076
50°	1898	1942	1994
55°	1806	1829	1883
60°	1686	1695	1739
65°	1548	1538	1574
70°	1407	1368	1375
75°	1251	1183	1174
80°	1086	971	945
85°	891	687	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	3.5
10°-20°	434.4	10.0
20°-30°	663.1	15.3
30°-40°	799.5	18.4
40°-50°	815.3	18.8
50°-60°	697.7	16.1
60°-70°	480.6	11.1
70°-80°	246.4	5.7
80°-90°	57.4	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°	1248.3	28.7
0°-40°	2047.7	47.1
0°-60°	3560.7	81.9
0°-90°	4345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1586	1582	1581	1586	1589	151
15°	1530	1528	1536	1548	1553	431
25°	1413	1418	1436	1460	1470	651
35°	1246	1251	1278	1306	1317	780
45°	1032	1034	1058	1085	1091	795
55°	770	765	780	796	803	687
65°	486	475	483	486	494	483
75°	241	231	228	228	226	259
85°	58	51	44	40	35	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1589.0	1589.0	1589.0	1589.0	1589.0
2.5°	1590.6	1587.3	1584.0	1587.3	1590.6
5°	1585.7	1582.4	1580.7	1585.7	1589.0
7.5°	1577.4	1574.1	1574.1	1580.7	1584.0
10°	1564.3	1562.6	1565.9	1572.5	1579.1
12.5°	1547.8	1547.8	1552.7	1561.0	1567.6
15°	1529.6	1528.0	1536.2	1547.8	1552.7
17.5°	1504.9	1506.6	1518.1	1531.3	1537.9
20°	1480.2	1481.8	1493.4	1511.5	1519.8
22.5°	1448.9	1452.2	1465.4	1488.4	1496.7
25°	1412.6	1417.6	1435.7	1460.4	1470.3
27.5°	1376.3	1381.3	1401.1	1429.1	1442.3
30°	1336.8	1343.4	1363.2	1392.8	1404.4
32.5°	1292.3	1297.2	1322.0	1351.6	1363.2
35°	1246.1	1251.1	1277.5	1305.5	1317.0
37.5°	1200.0	1200.0	1226.4	1259.3	1270.9
40°	1143.9	1145.6	1173.6	1204.9	1211.5
42.5°	1091.2	1091.2	1115.9	1145.6	1157.1
45°	1031.8	1033.5	1058.2	1084.6	1091.2
47.5°	970.9	970.9	992.3	1017.0	1023.6
50°	906.6	903.3	928.0	947.8	952.7
52.5°	840.6	835.7	855.5	872.0	878.6
55°	769.8	764.8	779.7	796.1	802.7
57.5°	695.6	689.0	705.5	720.3	723.6
60°	626.4	616.5	629.7	637.9	646.1
62.5°	557.1	545.6	555.5	560.4	567.0
65°	486.3	474.7	483.0	486.3	494.5
67.5°	418.7	410.4	412.1	417.0	420.3
70°	357.7	347.8	347.8	347.8	349.4
72.5°	301.6	286.8	285.2	286.8	286.8
75°	240.7	230.8	227.5	227.5	225.8
77.5°	192.9	179.7	178.0	174.7	171.4
80°	140.1	128.6	125.3	123.6	122.0
82.5°	97.3	87.4	84.1	80.8	75.8
85°	57.7	51.1	44.5	39.6	34.6
87.5°	21.4	19.8	16.5	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)