

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: P296189

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296189
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-LD5-55-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: 4344.0 lumens
Efficiency: N/A
Efficacy: 114.2 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

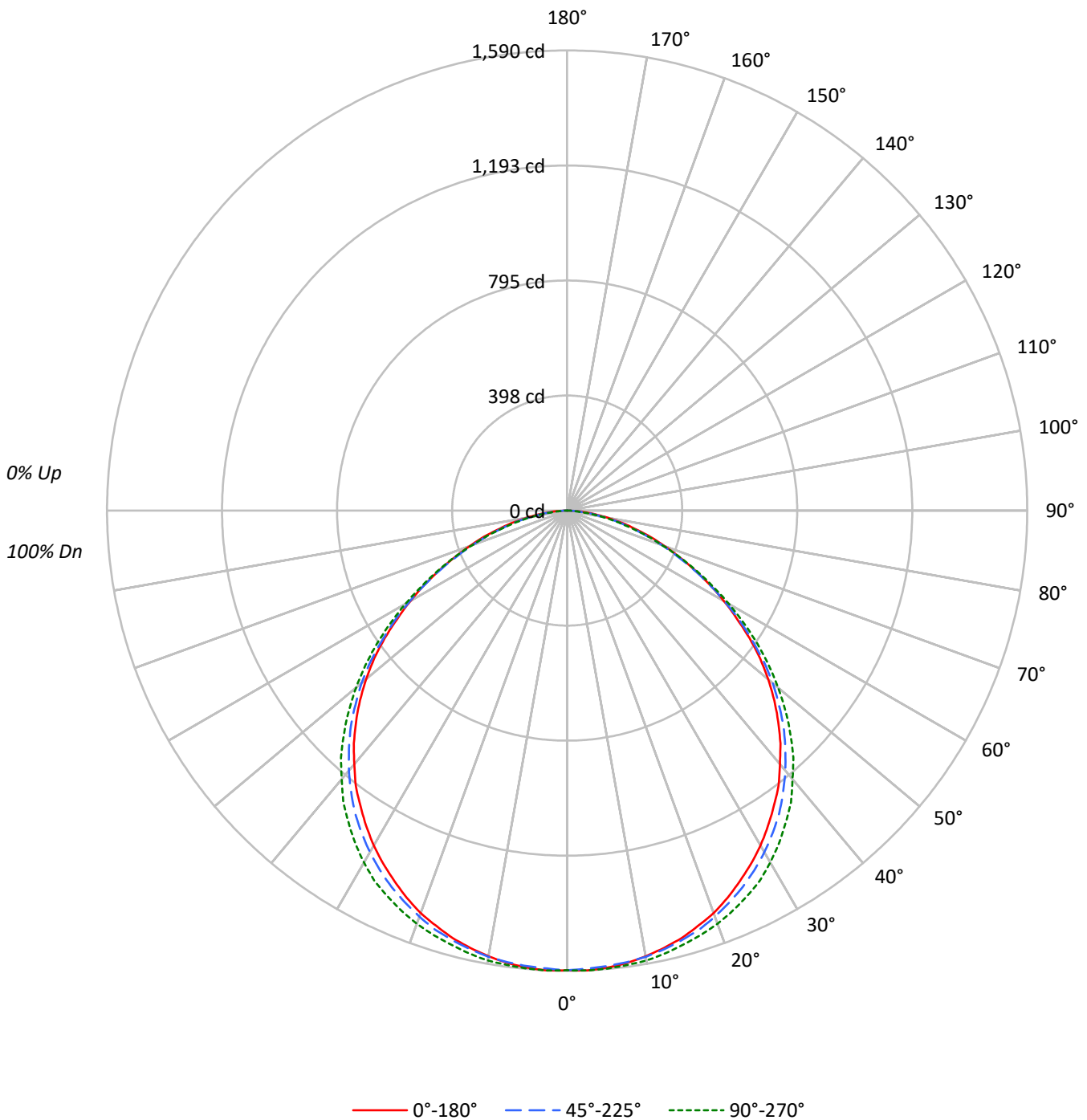
Input Watts (W): 38.037
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2137	2137	2137
5°	2141	2135	2146
10°	2137	2139	2157
15°	2130	2139	2162
20°	2119	2138	2176
25°	2097	2131	2182
30°	2076	2117	2181
35°	2046	2098	2163
40°	2009	2061	2127
45°	1963	2013	2076
50°	1897	1942	1994
55°	1805	1829	1882
60°	1685	1694	1738
65°	1548	1537	1574
70°	1407	1368	1375
75°	1251	1182	1174
80°	1086	970	945
85°	891	687	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	3.5
10°-20°	434.3	10.0
20°-30°	663.0	15.3
30°-40°	799.3	18.4
40°-50°	815.1	18.8
50°-60°	697.6	16.1
60°-70°	480.5	11.1
70°-80°	246.3	5.7
80°-90°	57.3	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°	1248.0	28.7
0°-40°	2047.2	47.1
0°-60°	3559.9	81.9
0°-90°	4344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1585	1582	1580	1585	1589	151
15°	1529	1528	1536	1547	1552	431
25°	1412	1417	1435	1460	1470	651
35°	1246	1251	1277	1305	1317	779
45°	1032	1033	1058	1084	1091	795
55°	770	765	780	796	802	687
65°	486	475	483	486	494	483
75°	241	231	227	227	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°	1588.6	1588.6	1588.6	1588.6	1588.6
2.5°	1590.3	1587.0	1583.7	1587.0	1590.3
5°	1585.3	1582.0	1580.4	1585.3	1588.6
7.5°	1577.1	1573.8	1573.8	1580.4	1583.7
10°	1563.9	1562.3	1565.5	1572.1	1578.7
12.5°	1547.4	1547.4	1552.4	1560.6	1567.2
15°	1529.3	1527.6	1535.9	1547.4	1552.4
17.5°	1504.6	1506.2	1517.8	1530.9	1537.5
20°	1479.9	1481.5	1493.0	1511.2	1519.4
22.5°	1448.5	1451.8	1465.0	1488.1	1496.3
25°	1412.3	1417.2	1435.4	1460.1	1470.0
27.5°	1376.0	1381.0	1400.8	1428.8	1442.0
30°	1336.5	1343.1	1362.8	1392.5	1404.0
32.5°	1292.0	1296.9	1321.7	1351.3	1362.8
35°	1245.8	1250.8	1277.2	1305.2	1316.7
37.5°	1199.7	1199.7	1226.1	1259.0	1270.6
40°	1143.7	1145.3	1173.3	1204.6	1211.2
42.5°	1090.9	1090.9	1115.7	1145.3	1156.9
45°	1031.6	1033.3	1058.0	1084.3	1090.9
47.5°	970.6	970.6	992.1	1016.8	1023.4
50°	906.4	903.1	927.8	947.6	952.5
52.5°	840.5	835.5	855.3	871.8	878.4
55°	769.6	764.6	779.5	796.0	802.5
57.5°	695.4	688.8	705.3	720.2	723.4
60°	626.2	616.3	629.5	637.8	646.0
62.5°	557.0	545.5	555.4	560.3	566.9
65°	486.1	474.6	482.8	486.1	494.4
67.5°	418.6	410.3	412.0	416.9	420.2
70°	357.6	347.7	347.7	347.7	349.4
72.5°	301.6	286.7	285.1	286.7	286.7
75°	240.6	230.7	227.4	227.4	225.8
77.5°	192.8	179.6	178.0	174.7	171.4
80°	140.1	128.5	125.2	123.6	121.9
82.5°	97.2	87.3	84.0	80.7	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)