

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: P296187

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296187
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-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4326.0 lumens
Efficiency: N/A
Efficacy: 118.4 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

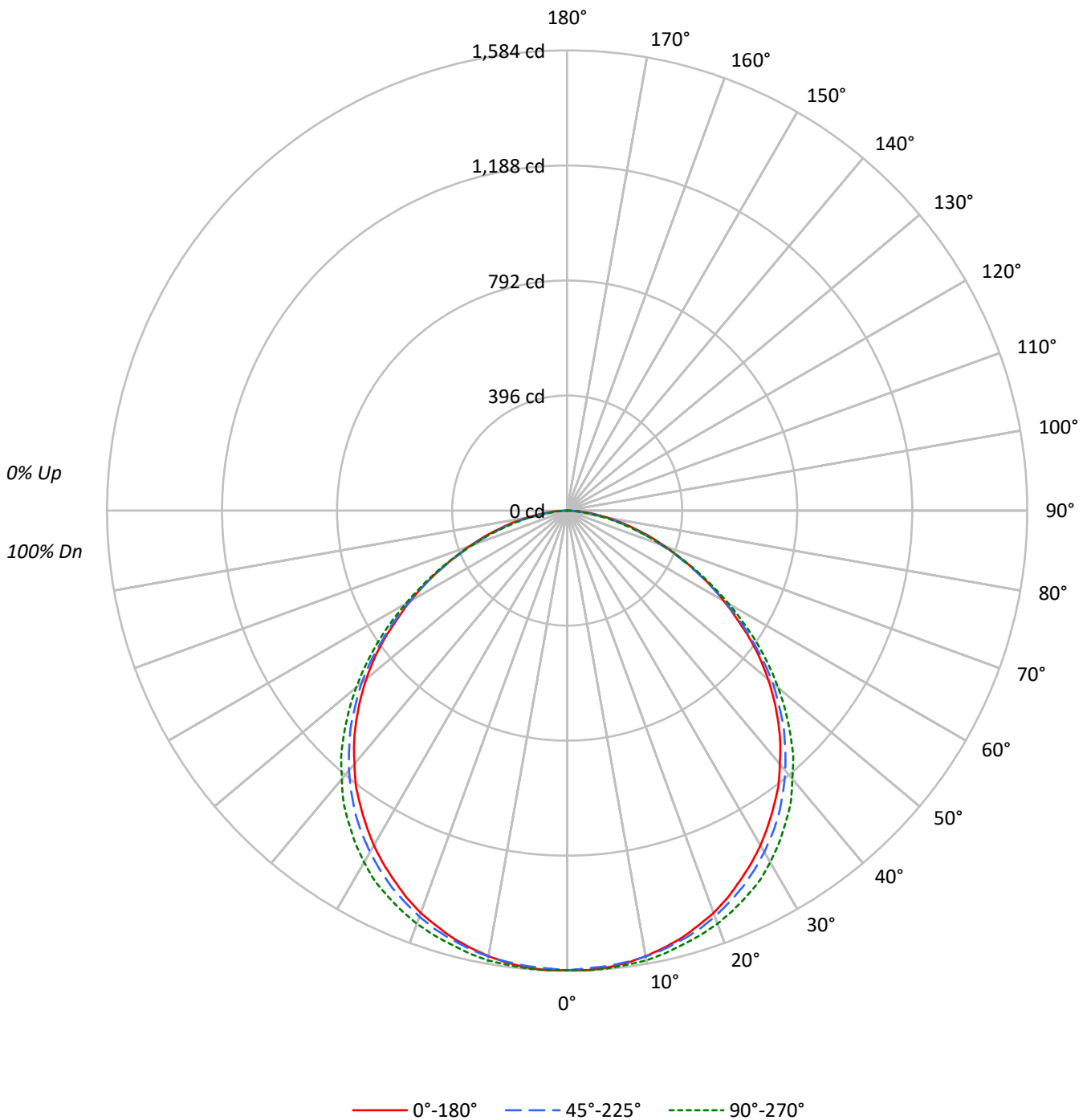
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2129	2129	2129
5°	2132	2126	2137
10°	2128	2130	2148
15°	2121	2131	2153
20°	2110	2129	2167
25°	2088	2122	2173
30°	2068	2109	2172
35°	2038	2089	2154
40°	2000	2052	2119
45°	1955	2005	2067
50°	1889	1934	1986
55°	1798	1821	1875
60°	1678	1687	1731
65°	1541	1531	1567
70°	1401	1362	1369
75°	1246	1177	1169
80°	1081	966	941
85°	886	684	533



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	3.5
10°-20°	432.5	10.0
20°-30°	660.2	15.3
30°-40°	796.0	18.4
40°-50°	811.7	18.8
50°-60°	694.7	16.1
60°-70°	478.5	11.1
70°-80°	245.3	5.7
80°-90°	57.1	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°	1242.8	28.7
0°-40°	2038.7	47.1
0°-60°	3545.1	81.9
0°-90°	4326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1582	1582	1582	1582	1582	
5°	1579	1576	1574	1579	1582	150
15°	1523	1521	1530	1541	1546	429
25°	1406	1411	1429	1454	1464	649
35°	1241	1246	1272	1300	1311	776
45°	1027	1029	1054	1080	1086	792
55°	766	762	776	793	799	684
65°	484	473	481	484	492	481
75°	240	230	226	226	225	258
85°	57	51	44	39	34	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1582.0	1582.0	1582.0	1582.0	1582.0
2.5°	1583.7	1580.4	1577.1	1580.4	1583.7
5°	1578.8	1575.5	1573.8	1578.8	1582.0
7.5°	1570.5	1567.3	1567.3	1573.8	1577.1
10°	1557.4	1555.8	1559.1	1565.6	1572.2
12.5°	1541.0	1541.0	1545.9	1554.1	1560.7
15°	1523.0	1521.3	1529.5	1541.0	1545.9
17.5°	1498.3	1500.0	1511.5	1524.6	1531.2
20°	1473.7	1475.4	1486.8	1504.9	1513.1
22.5°	1442.5	1445.8	1459.0	1481.9	1490.1
25°	1406.4	1411.4	1429.4	1454.0	1463.9
27.5°	1370.3	1375.3	1394.9	1422.8	1436.0
30°	1330.9	1337.5	1357.2	1386.7	1398.2
32.5°	1286.6	1291.6	1316.2	1345.7	1357.2
35°	1240.7	1245.6	1271.9	1299.8	1311.3
37.5°	1194.7	1194.7	1221.0	1253.8	1265.3
40°	1138.9	1140.6	1168.5	1199.7	1206.2
42.5°	1086.4	1086.4	1111.0	1140.6	1152.1
45°	1027.3	1029.0	1053.6	1079.9	1086.4
47.5°	966.6	966.6	988.0	1012.6	1019.1
50°	902.6	899.3	923.9	943.6	948.6
52.5°	837.0	832.0	851.7	868.1	874.7
55°	766.4	761.5	776.2	792.7	799.2
57.5°	692.6	686.0	702.4	717.2	720.4
60°	623.6	613.8	626.9	635.1	643.3
62.5°	554.7	543.2	553.1	558.0	564.5
65°	484.1	472.6	480.8	484.1	492.3
67.5°	416.8	408.6	410.3	415.2	418.5
70°	356.1	346.3	346.3	346.3	347.9
72.5°	300.3	285.6	283.9	285.6	285.6
75°	239.6	229.8	226.5	226.5	224.8
77.5°	192.0	178.9	177.2	174.0	170.7
80°	139.5	128.0	124.7	123.1	121.4
82.5°	96.8	87.0	83.7	80.4	75.5
85°	57.4	50.9	44.3	39.4	34.5
87.5°	21.3	19.7	16.4	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)