

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: P296191

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296191
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-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: 4593.0 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

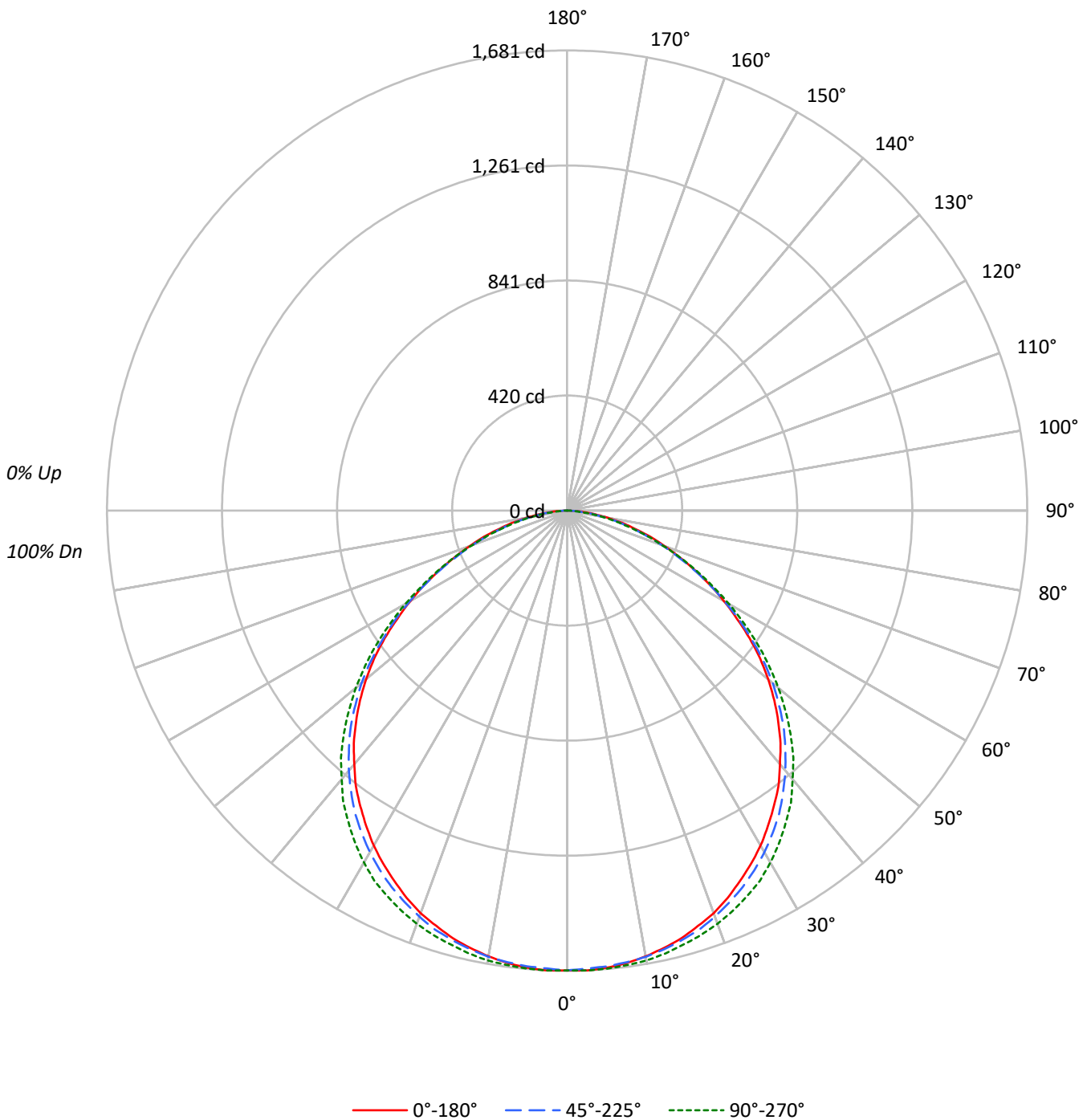
Input Watts (W): 38.781
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2260	2260	2260
5°	2264	2257	2269
10°	2259	2262	2281
15°	2252	2262	2286
20°	2240	2260	2300
25°	2217	2253	2307
30°	2195	2239	2306
35°	2164	2218	2287
40°	2124	2179	2249
45°	2075	2128	2195
50°	2006	2053	2108
55°	1909	1933	1991
60°	1782	1791	1838
65°	1636	1625	1664
70°	1487	1446	1453
75°	1323	1250	1241
80°	1148	1026	999
85°	942	726	565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	3.5
10°-20°	459.2	10.0
20°-30°	701.0	15.3
30°-40°	845.1	18.4
40°-50°	861.8	18.8
50°-60°	737.5	16.1
60°-70°	508.0	11.1
70°-80°	260.4	5.7
80°-90°	60.6	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°	1319.5	28.7
0°-40°	2164.6	47.1
0°-60°	3763.9	81.9
0°-90°	4593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1680	1680	1680	1680	1680	
5°	1676	1673	1671	1676	1680	159
15°	1617	1615	1624	1636	1641	456
25°	1493	1498	1518	1544	1554	689
35°	1317	1322	1350	1380	1392	824
45°	1091	1092	1119	1146	1154	840
55°	814	808	824	842	849	726
65°	514	502	510	514	523	511
75°	254	244	240	240	239	274
85°	61	54	47	42	37	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1679.7	1679.7	1679.7	1679.7	1679.7
2.5°	1681.4	1677.9	1674.5	1677.9	1681.4
5°	1676.2	1672.7	1671.0	1676.2	1679.7
7.5°	1667.5	1664.0	1664.0	1671.0	1674.5
10°	1653.5	1651.8	1655.3	1662.3	1669.2
12.5°	1636.1	1636.1	1641.3	1650.1	1657.0
15°	1617.0	1615.2	1623.9	1636.1	1641.3
17.5°	1590.8	1592.6	1604.8	1618.7	1625.7
20°	1564.7	1566.4	1578.6	1597.8	1606.5
22.5°	1531.6	1535.1	1549.0	1573.4	1582.1
25°	1493.2	1498.5	1517.6	1543.8	1554.2
27.5°	1454.9	1460.1	1481.0	1510.7	1524.6
30°	1413.1	1420.1	1441.0	1472.3	1484.5
32.5°	1366.0	1371.3	1397.4	1428.8	1441.0
35°	1317.3	1322.5	1350.4	1380.0	1392.2
37.5°	1268.5	1268.5	1296.3	1331.2	1343.4
40°	1209.2	1211.0	1240.6	1273.7	1280.7
42.5°	1153.5	1153.5	1179.6	1211.0	1223.2
45°	1090.7	1092.5	1118.6	1146.5	1153.5
47.5°	1026.3	1026.3	1048.9	1075.1	1082.0
50°	958.3	954.8	981.0	1001.9	1007.1
52.5°	888.6	883.4	904.3	921.7	928.7
55°	813.7	808.5	824.2	841.6	848.6
57.5°	735.3	728.3	745.7	761.4	764.9
60°	662.1	651.7	665.6	674.3	683.0
62.5°	588.9	576.7	587.2	592.4	599.4
65°	514.0	501.8	510.5	514.0	522.7
67.5°	442.6	433.9	435.6	440.8	444.3
70°	378.1	367.6	367.6	367.6	369.4
72.5°	318.9	303.2	301.4	303.2	303.2
75°	254.4	243.9	240.5	240.5	238.7
77.5°	203.9	189.9	188.2	184.7	181.2
80°	148.1	135.9	132.4	130.7	128.9
82.5°	102.8	92.3	88.9	85.4	80.2
85°	61.0	54.0	47.0	41.8	36.6
87.5°	22.7	20.9	17.4	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)