

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: P296333

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296333
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-L92765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4253.0 lumens
Efficiency: N/A
Efficacy: 108.4 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

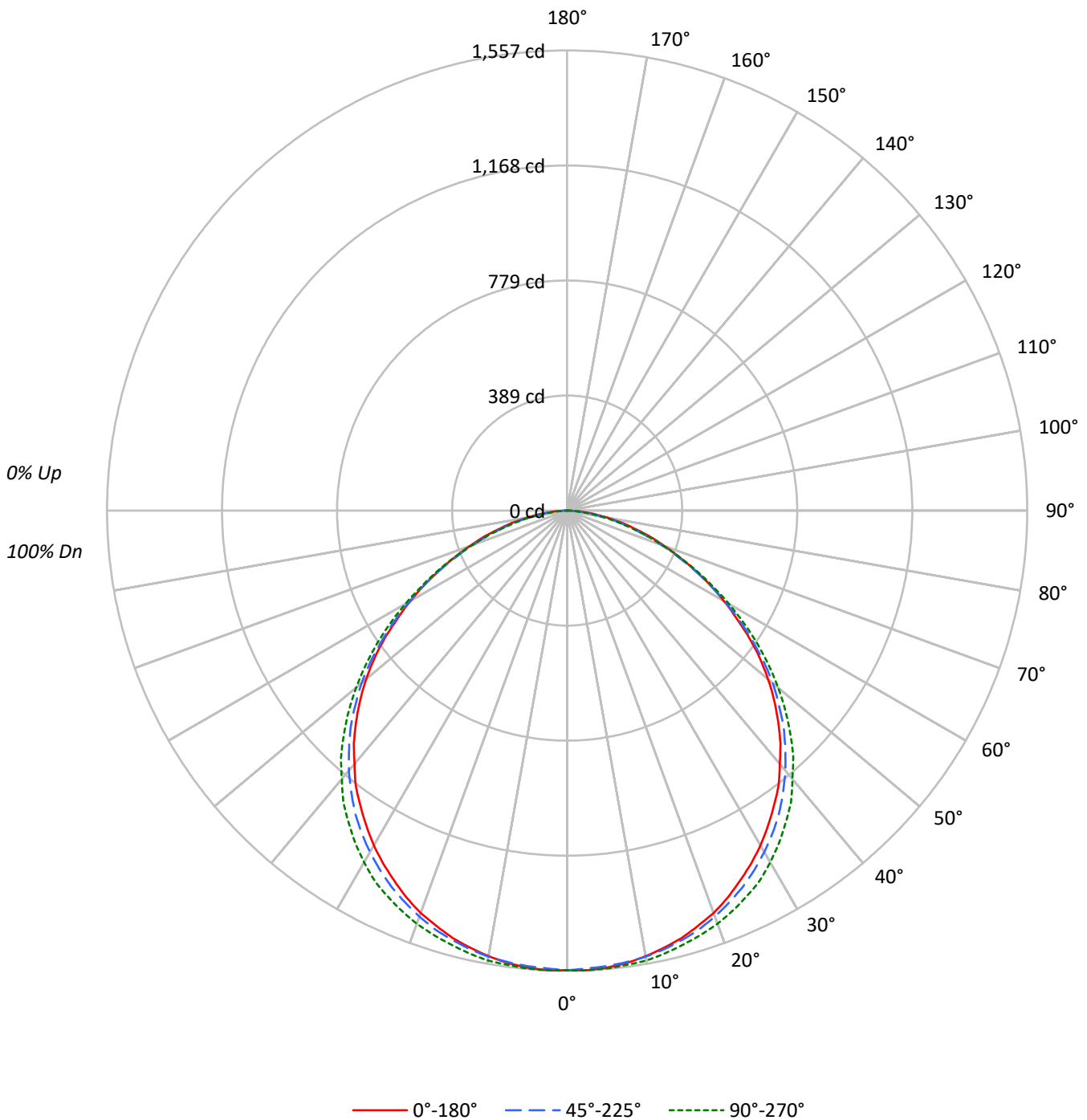
Input Watts (W): 39.246
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2093	2093	2093
5°	2096	2090	2101
10°	2092	2094	2112
15°	2086	2095	2117
20°	2075	2093	2130
25°	2053	2086	2137
30°	2033	2073	2136
35°	2003	2054	2117
40°	1967	2018	2083
45°	1922	1971	2032
50°	1858	1901	1952
55°	1768	1790	1843
60°	1650	1658	1702
65°	1515	1505	1541
70°	1377	1339	1345
75°	1225	1158	1149
80°	1062	950	925
85°	872	673	523



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	3.5
10°-20°	425.2	10.0
20°-30°	649.1	15.3
30°-40°	782.5	18.4
40°-50°	798.0	18.8
50°-60°	682.9	16.1
60°-70°	470.4	11.1
70°-80°	241.2	5.7
80°-90°	56.1	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°	1221.8	28.7
0°-40°	2004.3	47.1
0°-60°	3485.3	81.9
0°-90°	4253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1555	1555	1555	1555	1555	
5°	1552	1549	1547	1552	1555	147
15°	1497	1496	1504	1515	1520	422
25°	1383	1388	1405	1430	1439	638
35°	1220	1225	1250	1278	1289	763
45°	1010	1012	1036	1062	1068	778
55°	754	749	763	779	786	672
65°	476	465	473	476	484	473
75°	236	226	223	223	221	254
85°	56	50	44	39	34	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1555.3	1555.3	1555.3	1555.3	1555.3
2.5°	1557.0	1553.7	1550.5	1553.7	1557.0
5°	1552.1	1548.9	1547.3	1552.1	1555.3
7.5°	1544.0	1540.8	1540.8	1547.3	1550.5
10°	1531.1	1529.5	1532.8	1539.2	1545.7
12.5°	1515.0	1515.0	1519.8	1527.9	1534.4
15°	1497.3	1495.6	1503.7	1515.0	1519.8
17.5°	1473.1	1474.7	1486.0	1498.9	1505.3
20°	1448.9	1450.5	1461.8	1479.5	1487.6
22.5°	1418.2	1421.4	1434.3	1456.9	1465.0
25°	1382.7	1387.5	1405.3	1429.5	1439.2
27.5°	1347.2	1352.0	1371.4	1398.8	1411.7
30°	1308.5	1314.9	1334.3	1363.3	1374.6
32.5°	1264.9	1269.8	1294.0	1323.0	1334.3
35°	1219.7	1224.6	1250.4	1277.8	1289.1
37.5°	1174.6	1174.6	1200.4	1232.7	1243.9
40°	1119.7	1121.3	1148.8	1179.4	1185.9
42.5°	1068.1	1068.1	1092.3	1121.3	1132.6
45°	1010.0	1011.6	1035.8	1061.6	1068.1
47.5°	950.3	950.3	971.3	995.5	1001.9
50°	887.4	884.2	908.4	927.7	932.6
52.5°	822.8	818.0	837.4	853.5	860.0
55°	753.5	748.6	763.1	779.3	785.7
57.5°	680.9	674.4	690.5	705.1	708.3
60°	613.1	603.4	616.3	624.4	632.5
62.5°	545.3	534.0	543.7	548.6	555.0
65°	476.0	464.7	472.7	476.0	484.0
67.5°	409.8	401.7	403.4	408.2	411.4
70°	350.1	340.4	340.4	340.4	342.0
72.5°	295.3	280.7	279.1	280.7	280.7
75°	235.6	225.9	222.7	222.7	221.0
77.5°	188.8	175.9	174.2	171.0	167.8
80°	137.1	125.8	122.6	121.0	119.4
82.5°	95.2	85.5	82.3	79.1	74.2
85°	56.5	50.0	43.6	38.7	33.9
87.5°	21.0	19.4	16.1	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)