

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: P296188

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296188
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-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4222.0 lumens
Efficiency: N/A
Efficacy: 110.2 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

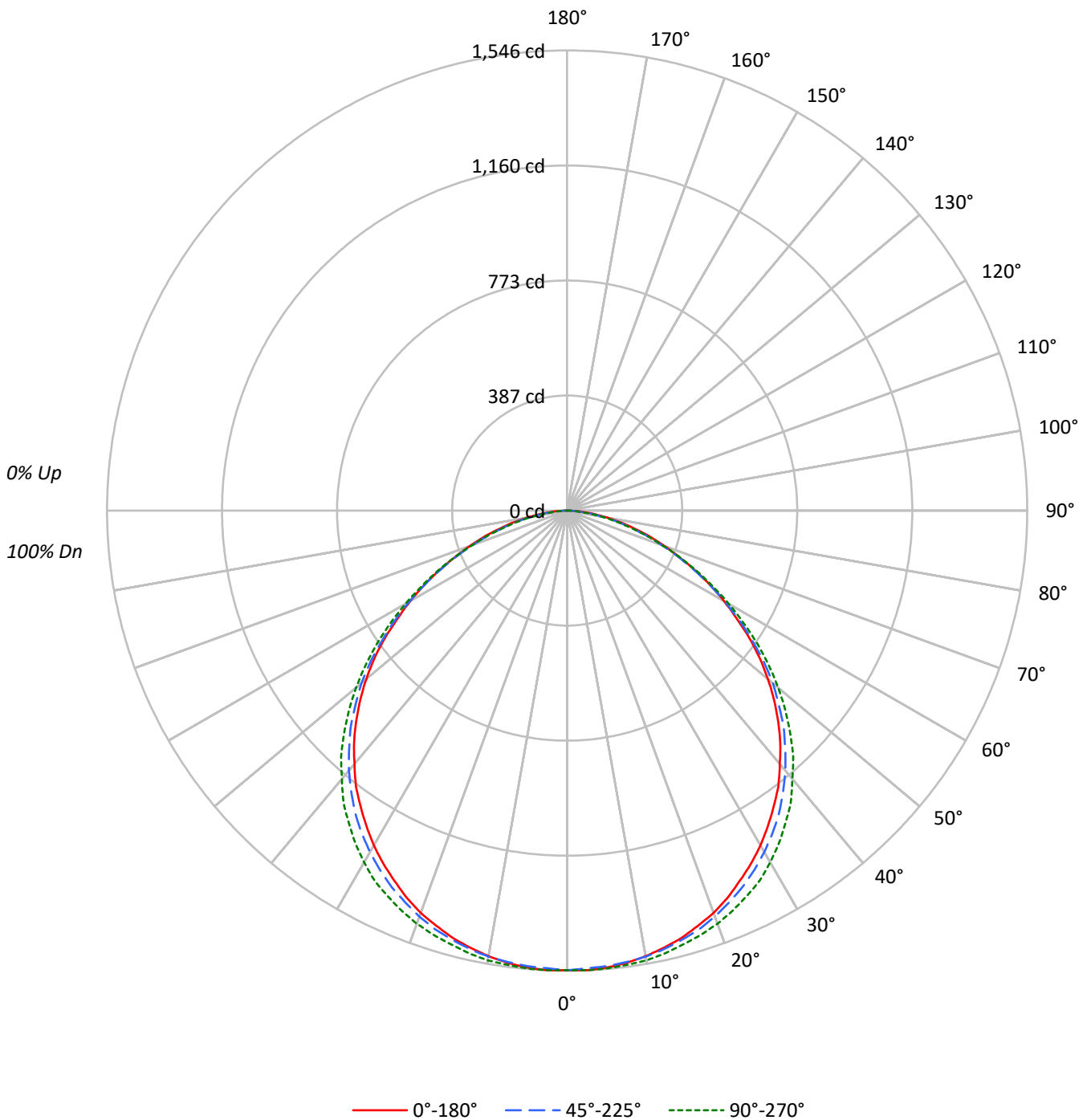
Input Watts (W): 38.316
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2077	2077	2077
5°	2081	2075	2085
10°	2077	2079	2096
15°	2070	2079	2102
20°	2059	2078	2114
25°	2038	2071	2121
30°	2018	2058	2120
35°	1989	2039	2102
40°	1952	2003	2068
45°	1908	1957	2018
50°	1844	1887	1938
55°	1755	1777	1830
60°	1638	1646	1690
65°	1504	1494	1530
70°	1367	1330	1336
75°	1215	1149	1141
80°	1055	943	918
85°	866	667	519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	3.5
10°-20°	422.1	10.0
20°-30°	644.4	15.3
30°-40°	776.8	18.4
40°-50°	792.2	18.8
50°-60°	678.0	16.1
60°-70°	467.0	11.1
70°-80°	239.4	5.7
80°-90°	55.7	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°	1212.9	28.7
0°-40°	1989.7	47.1
0°-60°	3459.9	81.9
0°-90°	4222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1541	1538	1536	1541	1544	146
15°	1486	1485	1493	1504	1509	419
25°	1373	1377	1395	1419	1429	633
35°	1211	1216	1241	1268	1280	758
45°	1003	1004	1028	1054	1060	772
55°	748	743	758	774	780	667
65°	472	461	469	472	480	470
75°	234	224	221	221	219	252
85°	56	50	43	38	34	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1544.0	1544.0	1544.0	1544.0	1544.0
2.5°	1545.6	1542.4	1539.2	1542.4	1545.6
5°	1540.8	1537.6	1536.0	1540.8	1544.0
7.5°	1532.8	1529.6	1529.6	1536.0	1539.2
10°	1520.0	1518.4	1521.6	1528.0	1534.4
12.5°	1504.0	1504.0	1508.8	1516.8	1523.2
15°	1486.3	1484.7	1492.7	1504.0	1508.8
17.5°	1462.3	1463.9	1475.1	1487.9	1494.3
20°	1438.3	1439.9	1451.1	1468.7	1476.7
22.5°	1407.9	1411.1	1423.9	1446.3	1454.3
25°	1372.6	1377.4	1395.0	1419.1	1428.7
27.5°	1337.4	1342.2	1361.4	1388.6	1401.5
30°	1298.9	1305.4	1324.6	1353.4	1364.6
32.5°	1255.7	1260.5	1284.5	1313.4	1324.6
35°	1210.9	1215.7	1241.3	1268.5	1279.7
37.5°	1166.0	1166.0	1191.6	1223.7	1234.9
40°	1111.6	1113.2	1140.4	1170.8	1177.2
42.5°	1060.3	1060.3	1084.3	1113.2	1124.4
45°	1002.6	1004.2	1028.3	1053.9	1060.3
47.5°	943.4	943.4	964.2	988.2	994.6
50°	880.9	877.7	901.7	921.0	925.8
52.5°	816.8	812.0	831.3	847.3	853.7
55°	748.0	743.2	757.6	773.6	780.0
57.5°	675.9	669.5	685.5	699.9	703.1
60°	608.6	599.0	611.8	619.8	627.9
62.5°	541.4	530.1	539.8	544.6	551.0
65°	472.5	461.3	469.3	472.5	480.5
67.5°	406.8	398.8	400.4	405.2	408.4
70°	347.6	338.0	338.0	338.0	339.6
72.5°	293.1	278.7	277.1	278.7	278.7
75°	233.8	224.2	221.0	221.0	219.4
77.5°	187.4	174.6	173.0	169.8	166.6
80°	136.1	124.9	121.7	120.1	118.5
82.5°	94.5	84.9	81.7	78.5	73.7
85°	56.1	49.7	43.2	38.4	33.6
87.5°	20.8	19.2	16.0	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)