

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: P296338

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296338
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-LD5-60-RDP-UNV-L92765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4070.0 lumens
Efficiency: N/A
Efficacy: 94.9 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

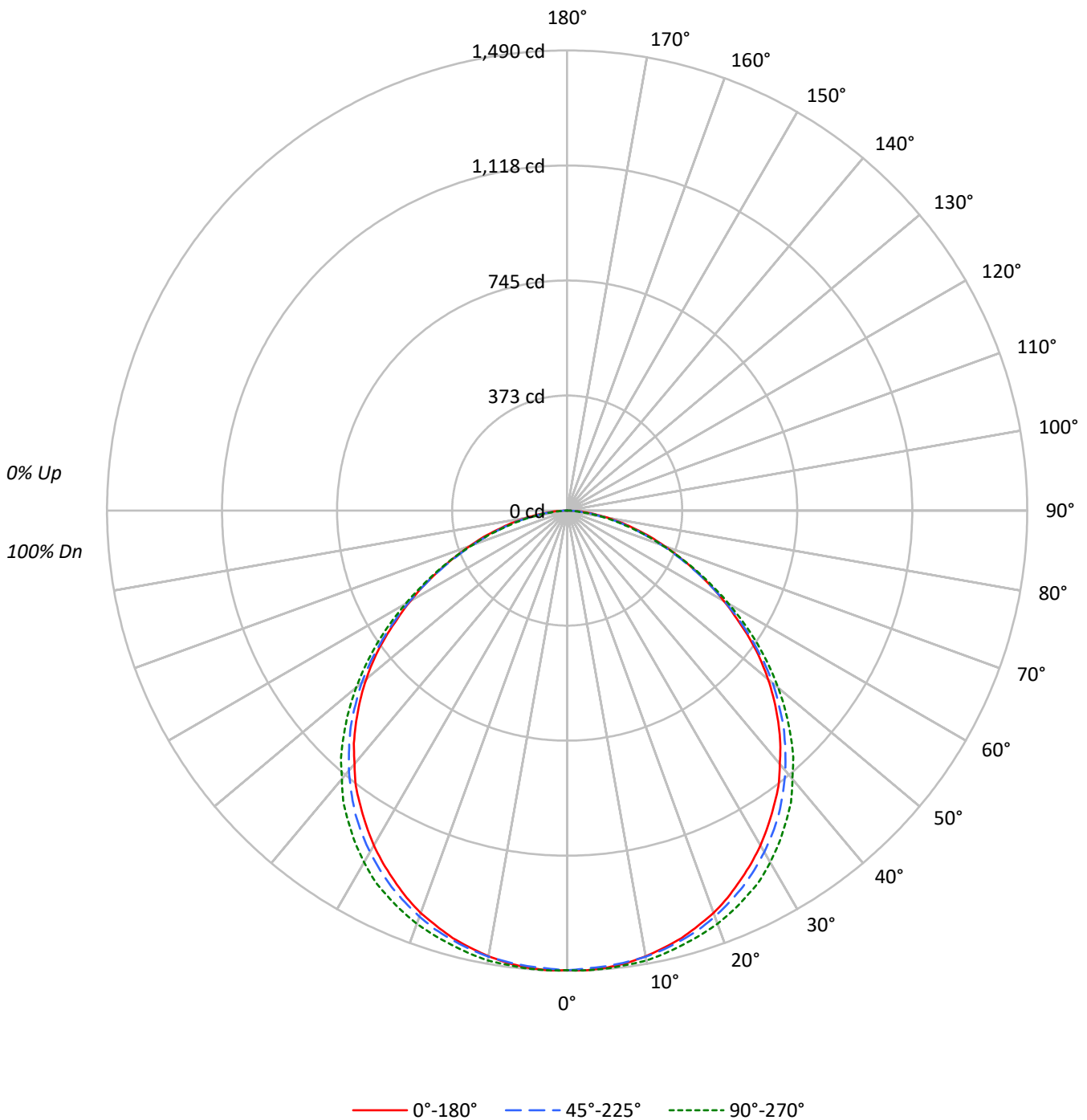
Input Watts (W): 42.873
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2003	2003	2003
5°	2006	2000	2010
10°	2002	2004	2021
15°	1996	2004	2026
20°	1985	2003	2038
25°	1964	1996	2045
30°	1945	1984	2044
35°	1917	1965	2026
40°	1882	1931	1993
45°	1839	1886	1945
50°	1778	1820	1868
55°	1691	1713	1764
60°	1579	1587	1629
65°	1450	1440	1475
70°	1318	1282	1288
75°	1172	1108	1099
80°	1017	909	886
85°	834	644	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	3.5
10°-20°	406.9	10.0
20°-30°	621.2	15.3
30°-40°	748.8	18.4
40°-50°	763.7	18.8
50°-60°	653.5	16.1
60°-70°	450.2	11.1
70°-80°	230.8	5.7
80°-90°	53.7	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°	1169.3	28.7
0°-40°	1918.1	47.1
0°-60°	3335.3	81.9
0°-90°	4070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1485	1482	1481	1485	1488	141
15°	1433	1431	1439	1450	1454	404
25°	1323	1328	1345	1368	1377	610
35°	1167	1172	1197	1223	1234	730
45°	966	968	991	1016	1022	745
55°	721	716	730	746	752	643
65°	456	445	452	456	463	453
75°	225	216	213	213	212	243
85°	54	48	42	37	32	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1488.4	1488.4	1488.4	1488.4	1488.4
2.5°	1490.0	1486.9	1483.8	1486.9	1490.0
5°	1485.3	1482.2	1480.7	1485.3	1488.4
7.5°	1477.6	1474.5	1474.5	1480.7	1483.8
10°	1465.3	1463.7	1466.8	1473.0	1479.2
12.5°	1449.8	1449.8	1454.4	1462.2	1468.3
15°	1432.8	1431.3	1439.0	1449.8	1454.4
17.5°	1409.7	1411.2	1422.0	1434.4	1440.6
20°	1386.5	1388.1	1398.9	1415.8	1423.6
22.5°	1357.2	1360.3	1372.6	1394.2	1402.0
25°	1323.2	1327.8	1344.8	1368.0	1377.2
27.5°	1289.2	1293.9	1312.4	1338.6	1351.0
30°	1252.2	1258.4	1276.9	1304.7	1315.5
32.5°	1210.5	1215.1	1238.3	1266.1	1276.9
35°	1167.3	1171.9	1196.6	1222.8	1233.7
37.5°	1124.0	1124.0	1148.7	1179.6	1190.4
40°	1071.5	1073.1	1099.3	1128.7	1134.8
42.5°	1022.1	1022.1	1045.3	1073.1	1083.9
45°	966.5	968.1	991.2	1016.0	1022.1
47.5°	909.4	909.4	929.5	952.6	958.8
50°	849.2	846.1	869.3	887.8	892.4
52.5°	787.4	782.8	801.3	816.8	823.0
55°	721.0	716.4	730.3	745.8	751.9
57.5°	651.6	645.4	660.8	674.7	677.8
60°	586.7	577.5	589.8	597.5	605.2
62.5°	521.9	511.1	520.3	525.0	531.1
65°	455.5	444.7	452.4	455.5	463.2
67.5°	392.2	384.5	386.0	390.6	393.7
70°	335.0	325.8	325.8	325.8	327.3
72.5°	282.6	268.7	267.1	268.7	268.7
75°	225.4	216.2	213.1	213.1	211.5
77.5°	180.6	168.3	166.8	163.7	160.6
80°	131.2	120.4	117.3	115.8	114.3
82.5°	91.1	81.8	78.7	75.7	71.0
85°	54.0	47.9	41.7	37.1	32.4
87.5°	20.1	18.5	15.4	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)