

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: P296329

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296329
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-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: 3749.0 lumens
Efficiency: N/A
Efficacy: 98.8 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

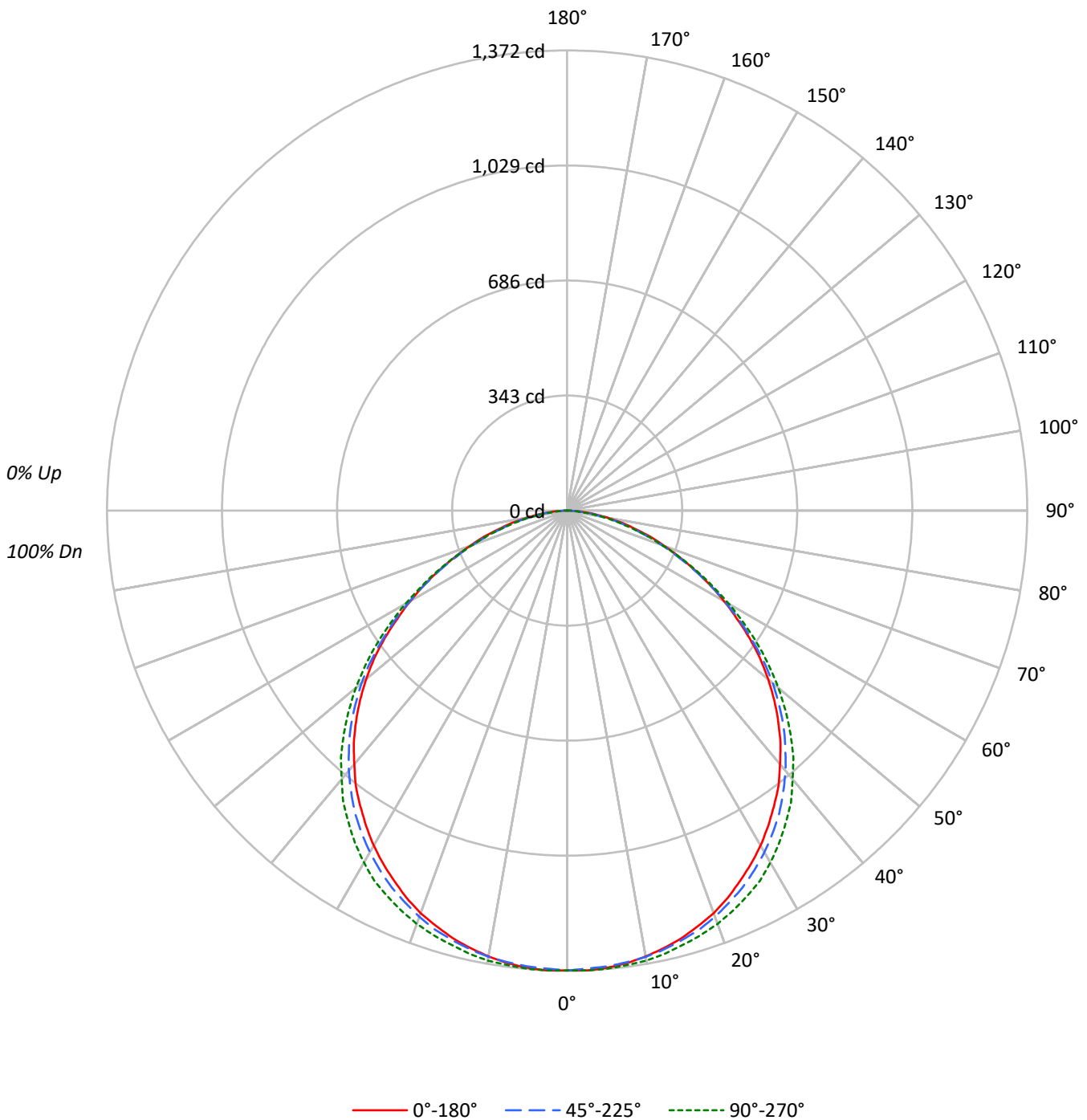
Input Watts (W): 37.944
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296329

CATALOG NUMBER: 24RLN-LD5-55-RDP-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P296329

CATALOG NUMBER: 24RLN-LD5-55-RDP-UNV-L92765-W2A1-U-3000K

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°	1845	1845	1845
5°	1848	1842	1852
10°	1844	1846	1862
15°	1838	1846	1866
20°	1829	1845	1878
25°	1809	1839	1883
30°	1792	1827	1883
35°	1766	1810	1867
40°	1734	1779	1836
45°	1694	1737	1791
50°	1637	1676	1721
55°	1558	1578	1625
60°	1454	1462	1500
65°	1336	1327	1358
70°	1214	1181	1186
75°	1079	1020	1013
80°	937	838	815
85°	769	593	462



TEST NUMBER: P296329

CATALOG NUMBER: 24RLN-LD5-55-RDP-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	3.5
10°-20°	374.8	10.0
20°-30°	572.2	15.3
30°-40°	689.8	18.4
40°-50°	703.4	18.8
50°-60°	602.0	16.1
60°-70°	414.7	11.1
70°-80°	212.6	5.7
80°-90°	49.5	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°	1077.0	28.7
0°-40°	1766.8	47.1
0°-60°	3072.2	81.9
0°-90°	3749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3749.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1368	1365	1364	1368	1371	130
15°	1320	1318	1326	1336	1340	372
25°	1219	1223	1239	1260	1269	562
35°	1075	1080	1102	1126	1136	673
45°	890	892	913	936	942	686
55°	664	660	673	687	693	592
65°	420	410	417	420	427	417
75°	208	199	196	196	195	224
85°	50	44	38	34	30	58
90°	0	0	0	0	0	



TEST NUMBER: P296329

CATALOG NUMBER: 24RLN-LD5-55-RDP-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1371.0	1371.0	1371.0	1371.0	1371.0
2.5°	1372.4	1369.6	1366.8	1369.6	1372.4
5°	1368.2	1365.3	1363.9	1368.2	1371.0
7.5°	1361.1	1358.2	1358.2	1363.9	1366.8
10°	1349.7	1348.3	1351.1	1356.8	1362.5
12.5°	1335.5	1335.5	1339.7	1346.8	1352.5
15°	1319.8	1318.4	1325.5	1335.5	1339.7
17.5°	1298.5	1299.9	1309.9	1321.2	1326.9
20°	1277.2	1278.6	1288.5	1304.2	1311.3
22.5°	1250.1	1253.0	1264.4	1284.3	1291.4
25°	1218.8	1223.1	1238.8	1260.1	1268.6
27.5°	1187.6	1191.8	1208.9	1233.1	1244.4
30°	1153.4	1159.1	1176.2	1201.8	1211.7
32.5°	1115.0	1119.3	1140.6	1166.2	1176.2
35°	1075.2	1079.5	1102.2	1126.4	1136.4
37.5°	1035.4	1035.4	1058.1	1086.6	1096.5
40°	987.0	988.4	1012.6	1039.6	1045.3
42.5°	941.5	941.5	962.8	988.4	998.4
45°	890.3	891.7	913.1	935.8	941.5
47.5°	837.7	837.7	856.2	877.5	883.2
50°	782.2	779.4	800.7	817.8	822.0
52.5°	725.3	721.1	738.1	752.4	758.0
55°	664.2	659.9	672.7	686.9	692.6
57.5°	600.2	594.5	608.7	621.5	624.4
60°	540.4	531.9	543.3	550.4	557.5
62.5°	480.7	470.8	479.3	483.6	489.2
65°	419.6	409.6	416.7	419.6	426.7
67.5°	361.2	354.1	355.6	359.8	362.7
70°	308.6	300.1	300.1	300.1	301.5
72.5°	260.3	247.5	246.0	247.5	247.5
75°	207.6	199.1	196.3	196.3	194.8
77.5°	166.4	155.0	153.6	150.8	147.9
80°	120.9	110.9	108.1	106.7	105.2
82.5°	83.9	75.4	72.5	69.7	65.4
85°	49.8	44.1	38.4	34.1	29.9
87.5°	18.5	17.1	14.2	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)