

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: P296334

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296334
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-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4319.0 lumens
Efficiency: N/A
Efficacy: 109.5 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

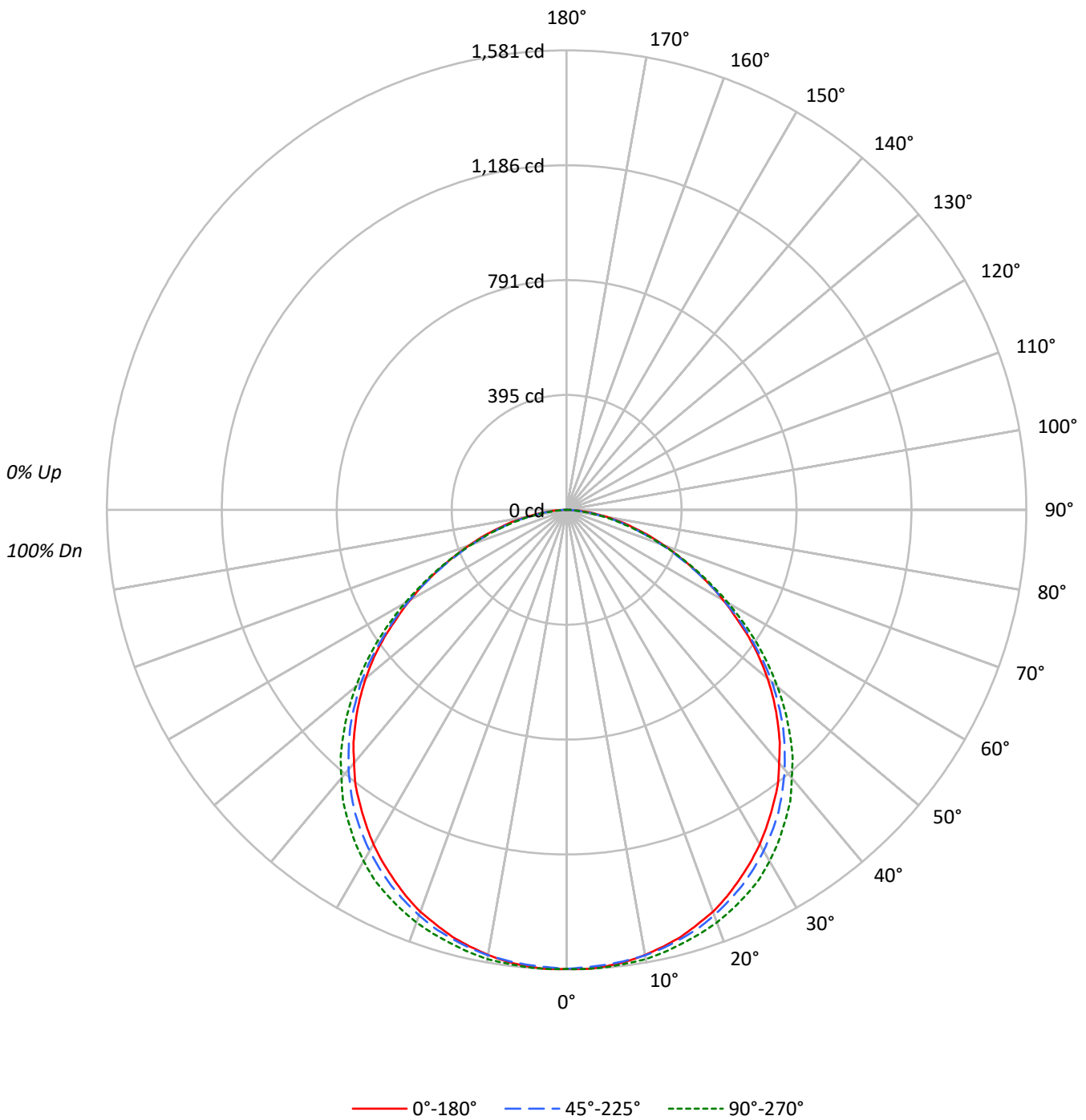
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2125	2125	2125
5°	2129	2122	2133
10°	2124	2127	2144
15°	2118	2127	2150
20°	2107	2125	2163
25°	2085	2119	2170
30°	2064	2105	2169
35°	2035	2086	2150
40°	1997	2049	2115
45°	1952	2002	2064
50°	1886	1931	1982
55°	1795	1818	1872
60°	1675	1684	1728
65°	1539	1528	1565
70°	1399	1360	1367
75°	1243	1175	1167
80°	1079	965	939
85°	885	682	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	3.5
10°-20°	431.8	10.0
20°-30°	659.2	15.3
30°-40°	794.7	18.4
40°-50°	810.4	18.8
50°-60°	693.5	16.1
60°-70°	477.7	11.1
70°-80°	244.9	5.7
80°-90°	57.0	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°	1240.8	28.7
0°-40°	2035.5	47.1
0°-60°	3539.4	81.9
0°-90°	4319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1576	1573	1571	1576	1580	150
15°	1520	1519	1527	1538	1543	429
25°	1404	1409	1427	1452	1462	648
35°	1239	1244	1270	1298	1309	775
45°	1026	1027	1052	1078	1085	790
55°	765	760	775	791	798	683
65°	483	472	480	483	492	480
75°	239	229	226	226	224	258
85°	57	51	44	39	34	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1579.5	1579.5	1579.5	1579.5	1579.5
2.5°	1581.1	1577.8	1574.6	1577.8	1581.1
5°	1576.2	1572.9	1571.3	1576.2	1579.5
7.5°	1568.0	1564.7	1564.7	1571.3	1574.6
10°	1554.9	1553.3	1556.5	1563.1	1569.6
12.5°	1538.5	1538.5	1543.4	1551.6	1558.2
15°	1520.5	1518.9	1527.0	1538.5	1543.4
17.5°	1495.9	1497.6	1509.0	1522.1	1528.7
20°	1471.3	1473.0	1484.4	1502.5	1510.7
22.5°	1440.2	1443.5	1456.6	1479.5	1487.7
25°	1404.2	1409.1	1427.1	1451.7	1461.5
27.5°	1368.1	1373.0	1392.7	1420.5	1433.7
30°	1328.8	1335.3	1355.0	1384.5	1396.0
32.5°	1284.6	1289.5	1314.0	1343.5	1355.0
35°	1238.7	1243.6	1269.8	1297.7	1309.1
37.5°	1192.8	1192.8	1219.0	1251.8	1263.3
40°	1137.1	1138.7	1166.6	1197.7	1204.3
42.5°	1084.7	1084.7	1109.2	1138.7	1150.2
45°	1025.7	1027.3	1051.9	1078.1	1084.7
47.5°	965.1	965.1	986.4	1010.9	1017.5
50°	901.2	897.9	922.5	942.1	947.0
52.5°	835.6	830.7	850.4	866.7	873.3
55°	765.2	760.2	775.0	791.4	797.9
57.5°	691.4	684.9	701.3	716.0	719.3
60°	622.6	612.8	625.9	634.1	642.3
62.5°	553.8	542.3	552.2	557.1	563.6
65°	483.3	471.9	480.1	483.3	491.5
67.5°	416.2	408.0	409.6	414.5	417.8
70°	355.5	345.7	345.7	345.7	347.4
72.5°	299.8	285.1	283.5	285.1	285.1
75°	239.2	229.4	226.1	226.1	224.5
77.5°	191.7	178.6	177.0	173.7	170.4
80°	139.3	127.8	124.5	122.9	121.2
82.5°	96.7	86.8	83.6	80.3	75.4
85°	57.3	50.8	44.2	39.3	34.4
87.5°	21.3	19.7	16.4	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)