

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: P296190

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296190
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-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4494.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

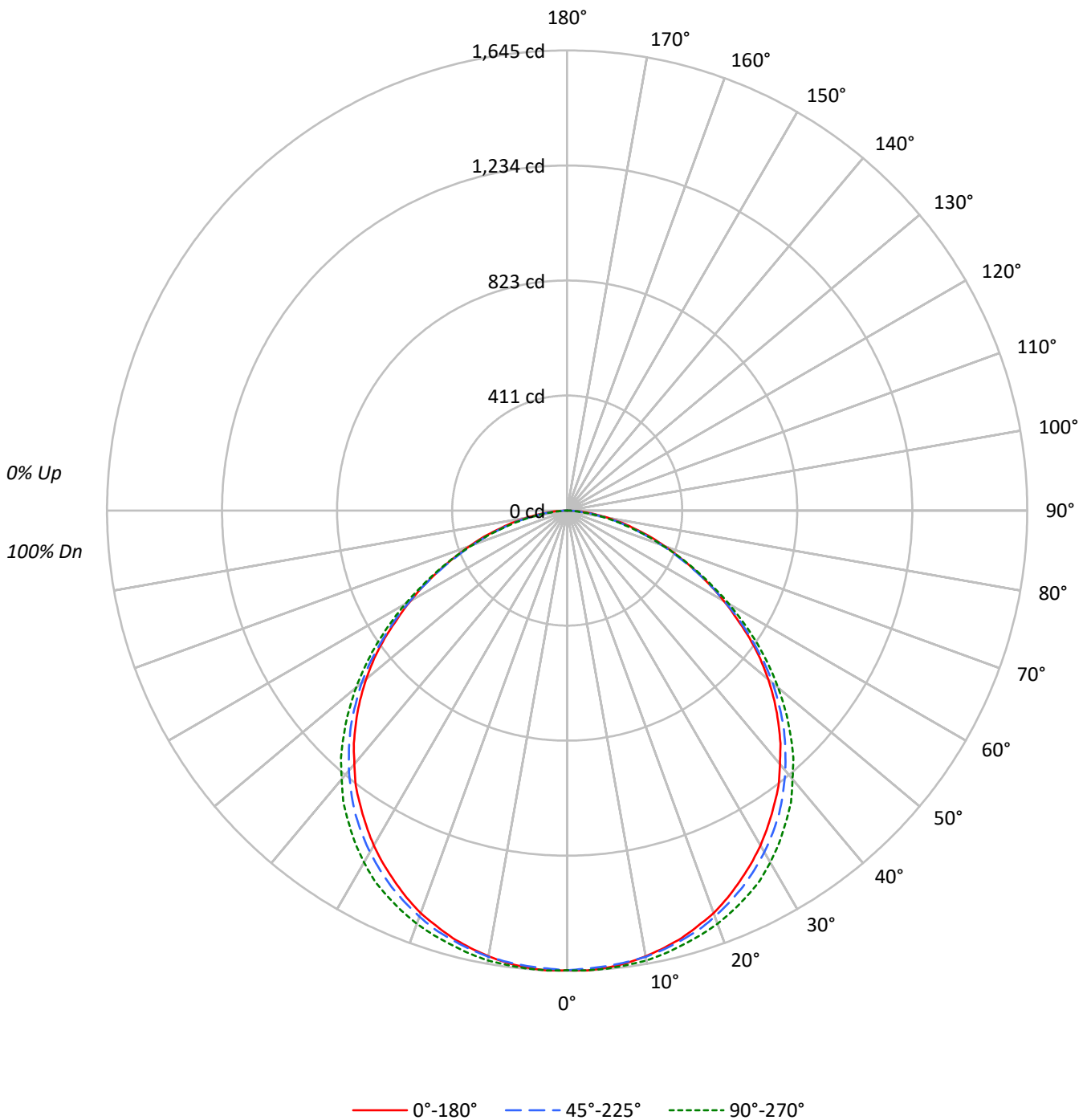
Input Watts (W): 38.502
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2211	2211	2211
5°	2215	2208	2220
10°	2210	2213	2231
15°	2204	2213	2237
20°	2192	2212	2251
25°	2169	2204	2258
30°	2148	2190	2257
35°	2117	2170	2237
40°	2078	2132	2201
45°	2031	2083	2148
50°	1963	2009	2063
55°	1868	1892	1948
60°	1743	1753	1798
65°	1601	1590	1628
70°	1456	1415	1422
75°	1294	1223	1214
80°	1123	1004	978
85°	922	710	553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	3.5
10°-20°	449.3	10.0
20°-30°	685.9	15.3
30°-40°	826.9	18.4
40°-50°	843.2	18.8
50°-60°	721.6	16.1
60°-70°	497.1	11.1
70°-80°	254.8	5.7
80°-90°	59.3	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°	1291.1	28.7
0°-40°	2117.9	47.1
0°-60°	3682.8	81.9
0°-90°	4494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1640	1637	1635	1640	1644	156
15°	1582	1580	1589	1601	1606	446
25°	1461	1466	1485	1510	1521	674
35°	1289	1294	1321	1350	1362	806
45°	1067	1069	1094	1122	1129	822
55°	796	791	806	823	830	710
65°	503	491	500	503	512	500
75°	249	239	235	235	234	268
85°	60	53	46	41	36	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1643.5	1643.5	1643.5	1643.5	1643.5
2.5°	1645.2	1641.8	1638.4	1641.8	1645.2
5°	1640.1	1636.7	1634.9	1640.1	1643.5
7.5°	1631.5	1628.1	1628.1	1634.9	1638.4
10°	1617.9	1616.2	1619.6	1626.4	1633.2
12.5°	1600.9	1600.9	1606.0	1614.5	1621.3
15°	1582.1	1580.4	1588.9	1600.9	1606.0
17.5°	1556.5	1558.2	1570.2	1583.8	1590.6
20°	1531.0	1532.7	1544.6	1563.3	1571.9
22.5°	1498.6	1502.0	1515.6	1539.5	1548.0
25°	1461.1	1466.2	1484.9	1510.5	1520.7
27.5°	1423.5	1428.7	1449.1	1478.1	1491.7
30°	1382.6	1389.5	1409.9	1440.6	1452.5
32.5°	1336.6	1341.7	1367.3	1398.0	1409.9
35°	1288.9	1294.0	1321.3	1350.2	1362.2
37.5°	1241.1	1241.1	1268.4	1302.5	1314.4
40°	1183.2	1184.9	1213.9	1246.2	1253.1
42.5°	1128.6	1128.6	1154.2	1184.9	1196.8
45°	1067.2	1068.9	1094.5	1121.8	1128.6
47.5°	1004.2	1004.2	1026.3	1051.9	1058.7
50°	937.7	934.3	959.8	980.3	985.4
52.5°	869.5	864.4	884.8	901.9	908.7
55°	796.2	791.0	806.4	823.4	830.3
57.5°	719.4	712.6	729.7	745.0	748.4
60°	647.8	637.6	651.3	659.8	668.3
62.5°	576.2	564.3	574.5	579.6	586.5
65°	502.9	491.0	499.5	502.9	511.5
67.5°	433.0	424.5	426.2	431.3	434.7
70°	370.0	359.7	359.7	359.7	361.4
72.5°	312.0	296.6	294.9	296.6	296.6
75°	248.9	238.7	235.3	235.3	233.6
77.5°	199.5	185.8	184.1	180.7	177.3
80°	144.9	133.0	129.6	127.9	126.2
82.5°	100.6	90.4	86.9	83.5	78.4
85°	59.7	52.9	46.0	40.9	35.8
87.5°	22.2	20.5	17.0	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)