

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: P295891

Luminaire Tested: **24RLN-LD5-45-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-45-UNV-L82765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4293.0 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

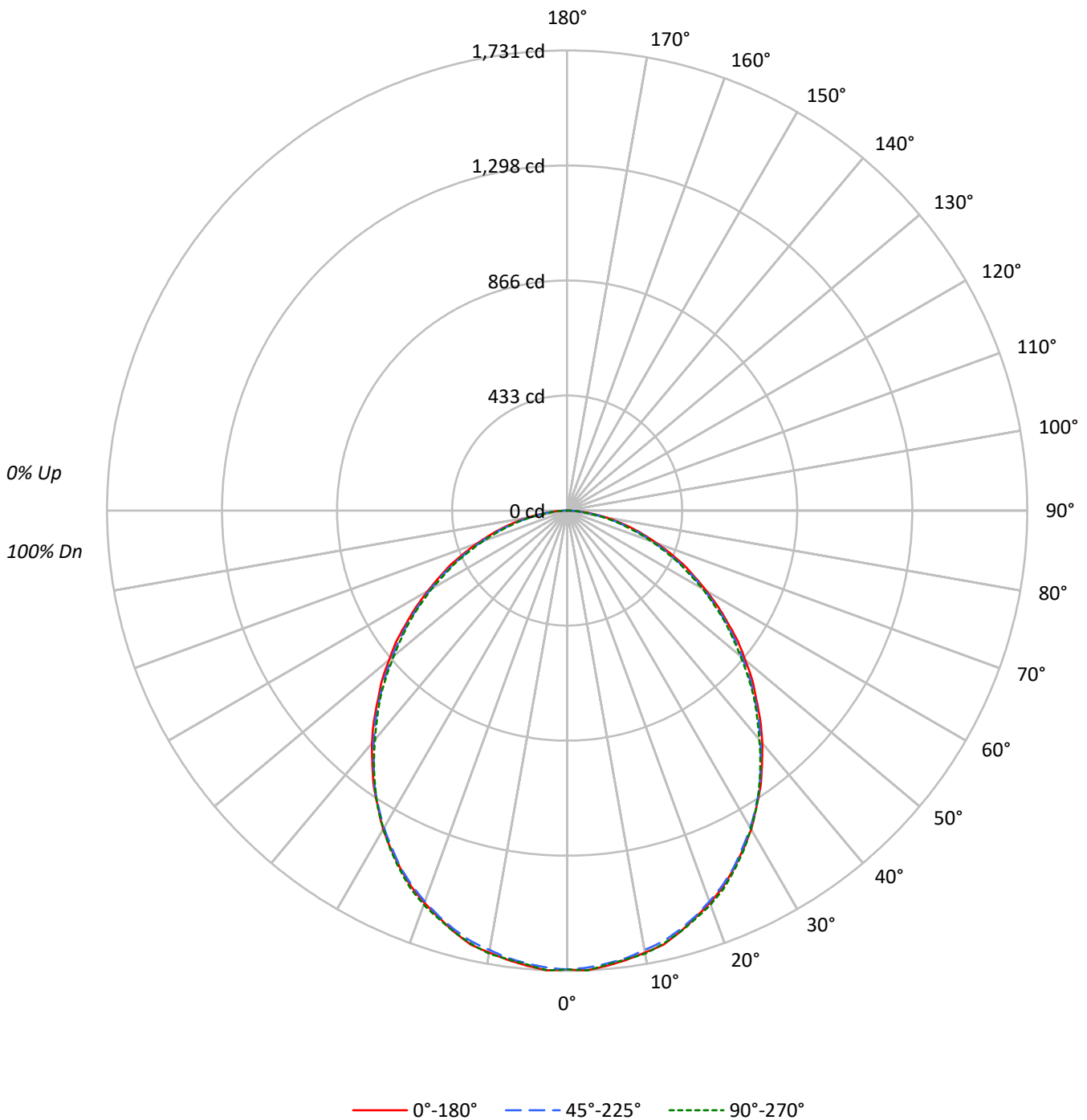
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2322	2322	2322
5°	2321	2310	2316
10°	2307	2293	2312
15°	2286	2275	2286
20°	2249	2241	2259
25°	2204	2200	2212
30°	2152	2141	2147
35°	2084	2075	2070
40°	2007	1987	1975
45°	1916	1897	1889
50°	1829	1800	1780
55°	1732	1706	1689
60°	1629	1599	1580
65°	1539	1481	1468
70°	1411	1357	1329
75°	1296	1217	1167
80°	1137	1062	998
85°	920	855	727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	3.8
10°-20°	461.6	10.8
20°-30°	682.8	15.9
30°-40°	788.0	18.4
40°-50°	769.6	17.9
50°-60°	649.9	15.1
60°-70°	462.9	10.8
70°-80°	250.7	5.8
80°-90°	64.7	1.5
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°	1307.2	30.4
0°-40°	2095.2	48.8
0°-60°	3514.8	81.9
0°-90°	4293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1719	1719	1710	1715	1715	163
15°	1641	1634	1633	1640	1641	462
25°	1485	1476	1482	1488	1490	684
35°	1269	1259	1263	1259	1260	792
45°	1007	999	997	993	993	779
55°	738	728	727	720	720	662
65°	483	474	465	460	461	477
75°	249	241	234	228	224	264
85°	60	58	55	48	47	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1725.7	1725.7	1725.7	1725.7	1725.7
2.5°	1731.2	1724.3	1721.5	1722.9	1731.2
5°	1718.7	1718.7	1710.4	1714.6	1714.6
7.5°	1704.9	1706.3	1698.0	1704.9	1702.1
10°	1688.3	1684.1	1678.6	1689.7	1692.4
12.5°	1673.0	1663.3	1660.6	1667.5	1668.9
15°	1641.2	1634.3	1632.9	1639.8	1641.2
17.5°	1605.2	1606.6	1601.0	1610.7	1609.3
20°	1570.5	1567.8	1565.0	1576.1	1577.5
22.5°	1531.8	1523.5	1526.2	1535.9	1538.7
25°	1484.7	1476.4	1481.9	1487.5	1490.2
27.5°	1434.8	1430.7	1429.3	1436.2	1439.0
30°	1385.0	1378.0	1378.0	1386.3	1382.2
32.5°	1324.0	1318.5	1321.3	1324.0	1325.4
35°	1268.6	1258.9	1263.1	1258.9	1260.3
37.5°	1203.5	1196.6	1195.2	1193.8	1193.8
40°	1142.6	1137.1	1131.5	1131.5	1124.6
42.5°	1076.1	1069.2	1066.4	1062.3	1058.1
45°	1006.9	998.6	997.2	993.0	993.0
47.5°	944.5	932.1	930.7	922.4	922.4
50°	873.9	865.6	860.1	854.5	850.4
52.5°	810.2	801.9	793.6	788.0	783.9
55°	738.2	728.5	727.1	720.2	720.2
57.5°	673.1	664.8	659.2	650.9	652.3
60°	605.2	596.9	594.1	587.2	587.2
62.5°	541.5	534.6	530.4	523.5	518.0
65°	483.4	473.7	465.3	459.8	461.2
67.5°	419.6	408.6	404.4	398.9	394.7
70°	358.7	351.8	344.9	337.9	337.9
72.5°	301.9	295.0	290.8	282.5	279.8
75°	249.3	241.0	234.1	228.5	224.4
77.5°	196.7	188.4	184.2	177.3	177.3
80°	146.8	141.3	137.1	134.3	128.8
82.5°	101.1	98.3	94.2	90.0	85.9
85°	59.6	58.2	55.4	48.5	47.1
87.5°	23.5	23.5	20.8	19.4	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)