

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: P296351

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296351
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-LD5-67-RDP-UNV-L92765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5133.0 lumens
Efficiency: N/A
Efficacy: 103.2 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

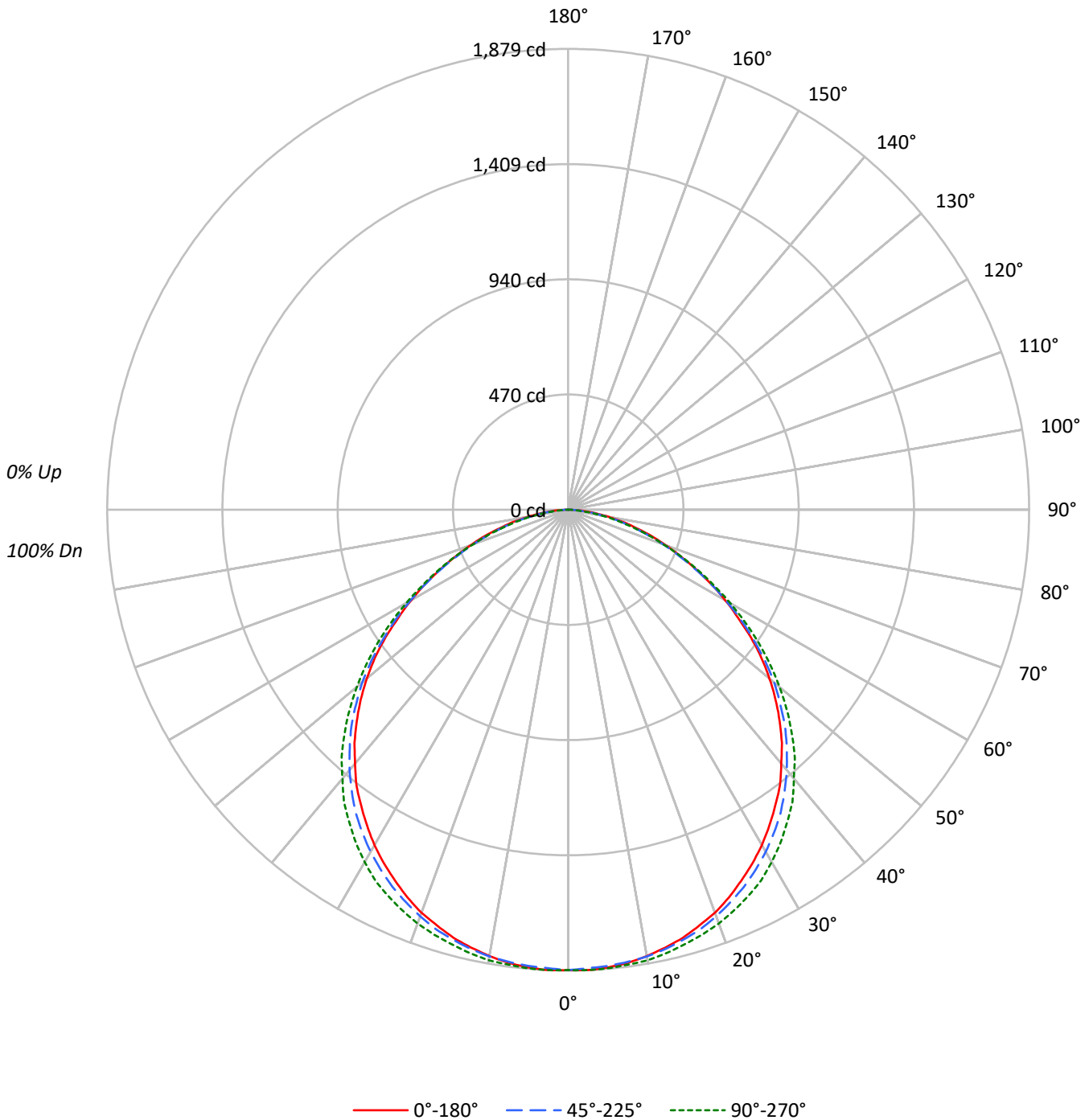
Input Watts (W): 49.755
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2526	2526	2526
5°	2530	2522	2535
10°	2525	2527	2549
15°	2517	2528	2555
20°	2504	2526	2571
25°	2477	2518	2579
30°	2454	2502	2578
35°	2418	2479	2556
40°	2374	2435	2514
45°	2320	2379	2453
50°	2242	2295	2356
55°	2133	2161	2225
60°	1991	2002	2054
65°	1829	1816	1860
70°	1662	1616	1624
75°	1478	1397	1387
80°	1282	1147	1117
85°	1053	812	631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	3.5
10°-20°	513.2	10.0
20°-30°	783.4	15.3
30°-40°	944.4	18.4
40°-50°	963.1	18.8
50°-60°	824.3	16.1
60°-70°	567.8	11.1
70°-80°	291.1	5.7
80°-90°	67.8	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°	1474.6	28.7
0°-40°	2419.1	47.1
0°-60°	4206.4	81.9
0°-90°	5133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5133.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1877	1877	1877	1877	1877	
5°	1873	1869	1867	1873	1877	178
15°	1807	1805	1815	1828	1834	510
25°	1669	1675	1696	1725	1737	770
35°	1472	1478	1509	1542	1556	921
45°	1219	1221	1250	1281	1289	939
55°	909	904	921	940	948	811
65°	574	561	570	574	584	571
75°	284	273	269	269	267	306
85°	68	60	53	47	41	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1877.2	1877.2	1877.2	1877.2	1877.2
2.5°	1879.1	1875.2	1871.3	1875.2	1879.1
5°	1873.3	1869.4	1867.4	1873.3	1877.2
7.5°	1863.5	1859.6	1859.6	1867.4	1871.3
10°	1847.9	1846.0	1849.9	1857.7	1865.5
12.5°	1828.5	1828.5	1834.3	1844.1	1851.8
15°	1807.1	1805.1	1814.8	1828.5	1834.3
17.5°	1777.8	1779.8	1793.4	1809.0	1816.8
20°	1748.6	1750.6	1764.2	1785.6	1795.4
22.5°	1711.6	1715.5	1731.1	1758.4	1768.1
25°	1668.8	1674.6	1696.1	1725.3	1737.0
27.5°	1626.0	1631.8	1655.2	1688.3	1703.9
30°	1579.2	1587.0	1610.4	1645.4	1659.1
32.5°	1526.7	1532.5	1561.7	1596.8	1610.4
35°	1472.1	1478.0	1509.1	1542.2	1555.9
37.5°	1417.6	1417.6	1448.8	1487.7	1501.3
40°	1351.4	1353.3	1386.4	1423.4	1431.2
42.5°	1289.1	1289.1	1318.3	1353.3	1367.0
45°	1219.0	1220.9	1250.1	1281.3	1289.1
47.5°	1146.9	1146.9	1172.2	1201.5	1209.2
50°	1071.0	1067.1	1096.3	1119.7	1125.5
52.5°	993.1	987.3	1010.6	1030.1	1037.9
55°	909.4	903.5	921.1	940.5	948.3
57.5°	821.7	814.0	833.4	851.0	854.8
60°	740.0	728.3	743.9	753.6	763.3
62.5°	658.2	644.5	656.2	662.1	669.9
65°	574.4	560.8	570.5	574.4	584.2
67.5°	494.6	484.9	486.8	492.7	496.6
70°	422.6	410.9	410.9	410.9	412.8
72.5°	356.3	338.8	336.9	338.8	338.8
75°	284.3	272.6	268.7	268.7	266.8
77.5°	227.8	212.3	210.3	206.4	202.5
80°	165.5	151.9	148.0	146.0	144.1
82.5°	114.9	103.2	99.3	95.4	89.6
85°	68.2	60.4	52.6	46.7	40.9
87.5°	25.3	23.4	19.5	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)