

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: P296205

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296205
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-LD5-60-RDP-UNV-L82765-W2A1-U-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5221.0 lumens
Efficiency: N/A
Efficacy: 115.5 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

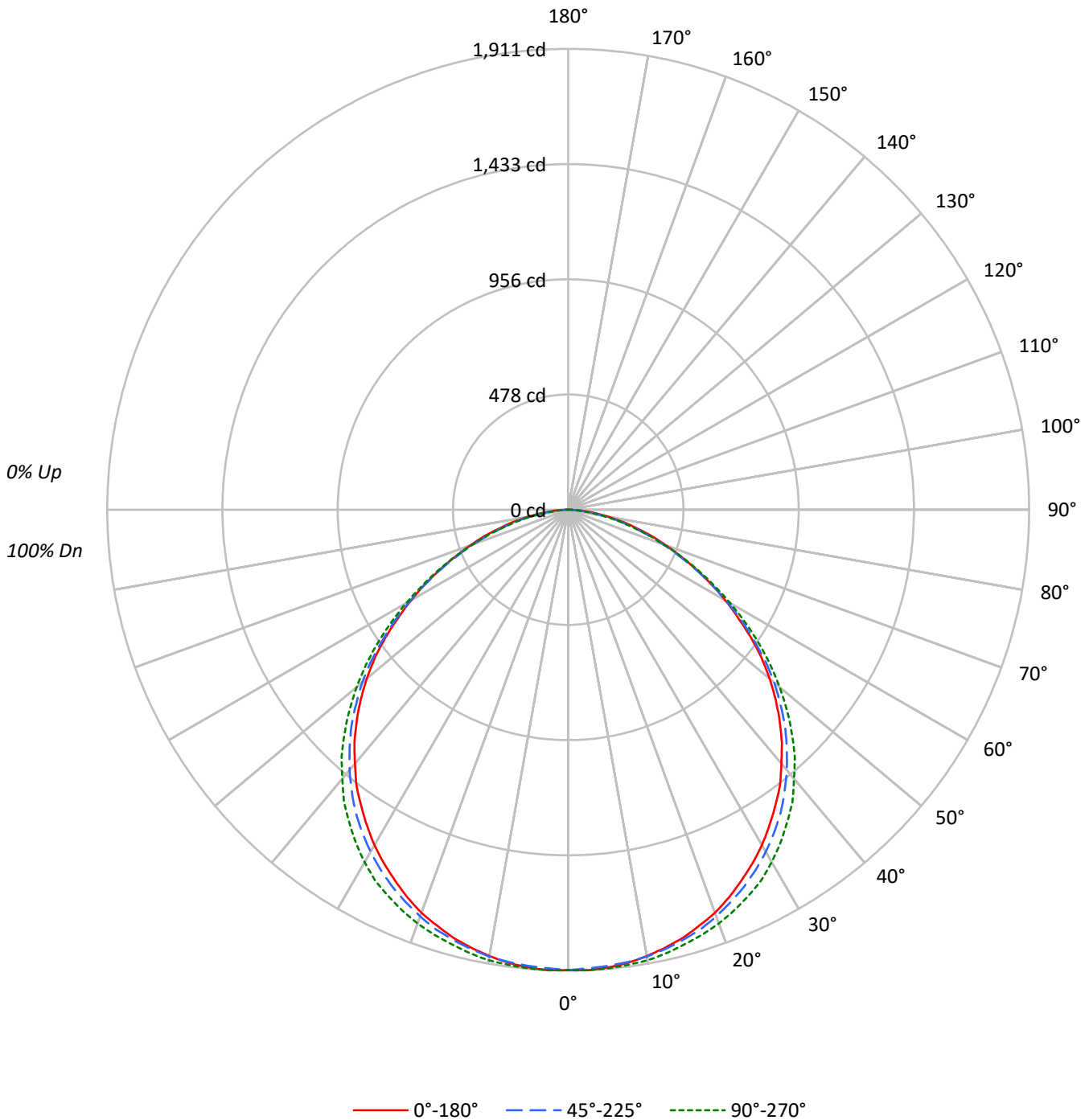
Input Watts (W): 45.198
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2569	2569	2569
5°	2573	2565	2579
10°	2568	2571	2592
15°	2560	2571	2599
20°	2547	2569	2615
25°	2520	2561	2623
30°	2496	2545	2622
35°	2460	2521	2599
40°	2414	2477	2557
45°	2359	2420	2495
50°	2280	2334	2396
55°	2170	2198	2263
60°	2025	2036	2089
65°	1860	1848	1892
70°	1691	1644	1652
75°	1503	1421	1410
80°	1305	1166	1136
85°	1070	826	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	3.5
10°-20°	522.0	10.0
20°-30°	796.8	15.3
30°-40°	960.6	18.4
40°-50°	979.6	18.8
50°-60°	838.4	16.1
60°-70°	577.5	11.1
70°-80°	296.0	5.7
80°-90°	68.9	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°	1499.9	28.7
0°-40°	2460.5	47.1
0°-60°	4278.5	81.9
0°-90°	5221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1909	1909	1909	1909	1909	
5°	1905	1901	1899	1905	1909	181
15°	1838	1836	1846	1860	1866	518
25°	1697	1703	1725	1755	1767	783
35°	1497	1503	1535	1569	1582	937
45°	1240	1242	1272	1303	1311	955
55°	925	919	937	957	965	825
65°	584	570	580	584	594	581
75°	289	277	273	273	271	312
85°	69	61	54	48	42	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1909.3	1909.3	1909.3	1909.3	1909.3
2.5°	1911.3	1907.4	1903.4	1907.4	1911.3
5°	1905.4	1901.4	1899.4	1905.4	1909.3
7.5°	1895.5	1891.5	1891.5	1899.4	1903.4
10°	1879.6	1877.6	1881.6	1889.5	1897.5
12.5°	1859.8	1859.8	1865.8	1875.7	1883.6
15°	1838.0	1836.1	1846.0	1859.8	1865.8
17.5°	1808.3	1810.3	1824.2	1840.0	1847.9
20°	1778.6	1780.6	1794.5	1816.2	1826.2
22.5°	1741.0	1744.9	1760.8	1788.5	1798.4
25°	1697.4	1703.4	1725.1	1754.8	1766.7
27.5°	1653.8	1659.8	1683.5	1717.2	1733.1
30°	1606.3	1614.2	1638.0	1673.6	1687.5
32.5°	1552.8	1558.8	1588.5	1624.1	1638.0
35°	1497.4	1503.3	1535.0	1568.7	1582.5
37.5°	1441.9	1441.9	1473.6	1513.2	1527.1
40°	1374.6	1376.5	1410.2	1447.8	1455.8
42.5°	1311.2	1311.2	1340.9	1376.5	1390.4
45°	1239.9	1241.9	1271.6	1303.3	1311.2
47.5°	1166.6	1166.6	1192.3	1222.1	1230.0
50°	1089.4	1085.4	1115.1	1138.9	1144.8
52.5°	1010.1	1004.2	1028.0	1047.8	1055.7
55°	925.0	919.0	936.8	956.7	964.6
57.5°	835.8	827.9	847.7	865.5	869.5
60°	752.6	740.8	756.6	766.5	776.4
62.5°	669.5	655.6	667.5	673.4	681.3
65°	584.3	570.4	580.3	584.3	594.2
67.5°	503.1	493.2	495.2	501.1	505.1
70°	429.8	417.9	417.9	417.9	419.9
72.5°	362.5	344.6	342.7	344.6	344.6
75°	289.2	277.3	273.3	273.3	271.3
77.5°	231.7	215.9	213.9	209.9	206.0
80°	168.4	154.5	150.5	148.5	146.6
82.5°	116.9	105.0	101.0	97.1	91.1
85°	69.3	61.4	53.5	47.5	41.6
87.5°	25.7	23.8	19.8	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)