

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: P296275

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296275
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-LD5-74-RDP-UNV-L93050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5659.0 lumens
Efficiency: N/A
Efficacy: 100.2 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

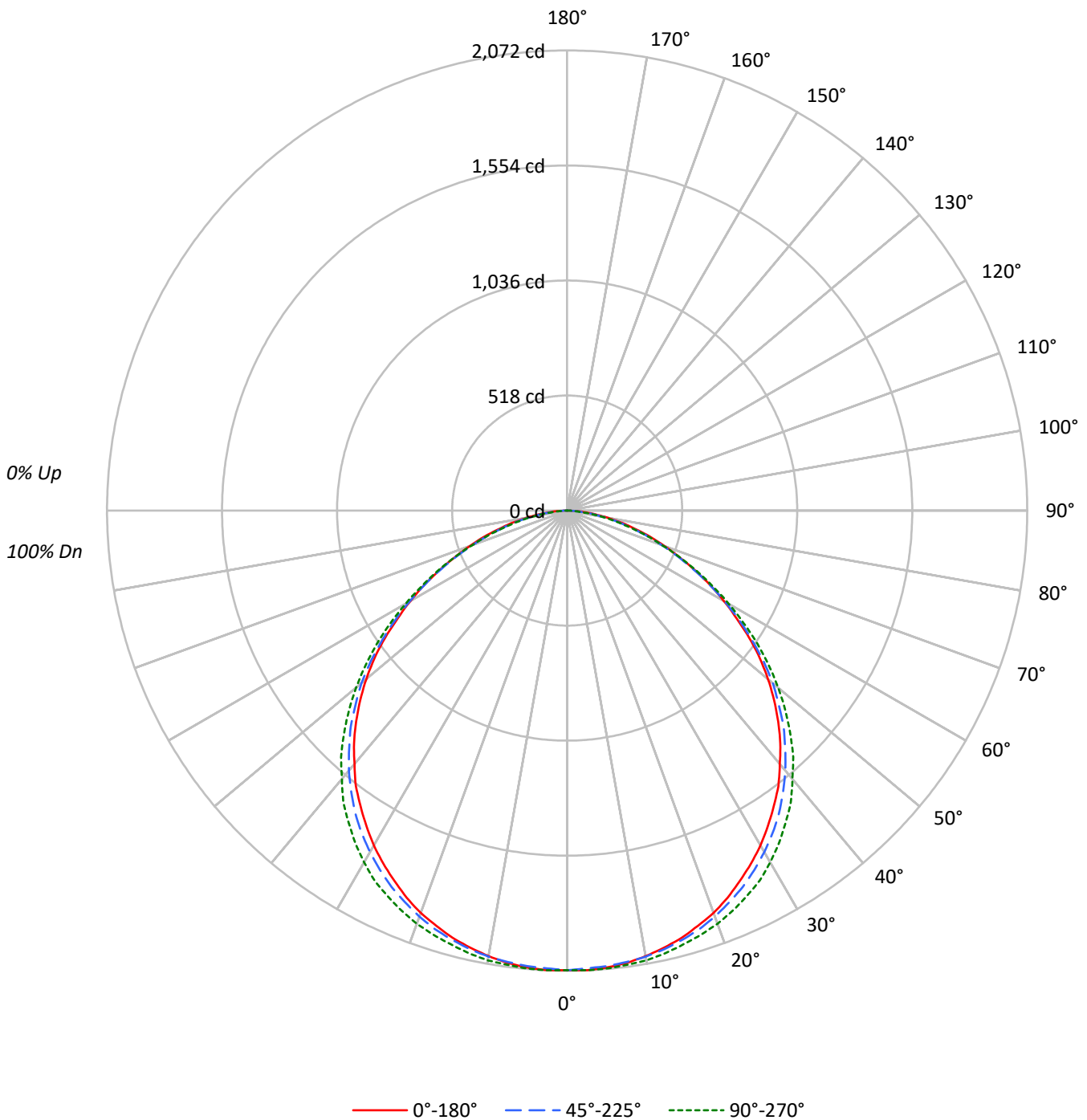
Input Watts (W): 56.451
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2784	2784	2784
5°	2789	2781	2795
10°	2783	2786	2810
15°	2775	2787	2817
20°	2760	2785	2834
25°	2731	2776	2843
30°	2705	2758	2842
35°	2666	2733	2817
40°	2617	2685	2771
45°	2557	2622	2704
50°	2471	2530	2597
55°	2352	2382	2453
60°	2195	2207	2264
65°	2016	2003	2050
70°	1833	1782	1790
75°	1629	1540	1529
80°	1414	1265	1231
85°	1159	895	696



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	3.5
10°-20°	565.8	10.0
20°-30°	863.7	15.3
30°-40°	1041.2	18.4
40°-50°	1061.8	18.8
50°-60°	908.7	16.1
60°-70°	625.9	11.1
70°-80°	320.9	5.7
80°-90°	74.7	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°	1625.8	28.7
0°-40°	2667.0	47.1
0°-60°	4637.5	81.9
0°-90°	5659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2070	2070	2070	2070	2070	
5°	2065	2061	2059	2065	2070	196
15°	1992	1990	2001	2016	2022	562
25°	1840	1846	1870	1902	1915	848
35°	1623	1629	1664	1700	1715	1015
45°	1344	1346	1378	1413	1421	1035
55°	1003	996	1015	1037	1046	894
65°	633	618	629	633	644	629
75°	313	301	296	296	294	338
85°	75	67	58	52	45	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2069.5	2069.5	2069.5	2069.5	2069.5
2.5°	2071.7	2067.4	2063.1	2067.4	2071.7
5°	2065.2	2060.9	2058.8	2065.2	2069.5
7.5°	2054.5	2050.2	2050.2	2058.8	2063.1
10°	2037.3	2035.2	2039.5	2048.0	2056.6
12.5°	2015.8	2015.8	2022.3	2033.0	2041.6
15°	1992.2	1990.1	2000.8	2015.8	2022.3
17.5°	1960.0	1962.2	1977.2	1994.4	2003.0
20°	1927.8	1930.0	1945.0	1968.6	1979.4
22.5°	1887.0	1891.3	1908.5	1938.6	1949.3
25°	1839.8	1846.3	1869.9	1902.1	1914.9
27.5°	1792.6	1799.0	1824.8	1861.3	1878.5
30°	1741.1	1749.6	1775.4	1814.0	1829.1
32.5°	1683.1	1689.5	1721.7	1760.4	1775.4
35°	1623.0	1629.4	1663.8	1700.3	1715.3
37.5°	1562.9	1562.9	1597.2	1640.2	1655.2
40°	1489.9	1492.0	1528.5	1569.3	1577.9
42.5°	1421.2	1421.2	1453.4	1492.0	1507.1
45°	1343.9	1346.0	1378.2	1412.6	1421.2
47.5°	1264.5	1264.5	1292.4	1324.6	1333.2
50°	1180.7	1176.4	1208.6	1234.4	1240.9
52.5°	1094.9	1088.4	1114.2	1135.7	1144.2
55°	1002.6	996.1	1015.4	1036.9	1045.5
57.5°	906.0	897.4	918.8	938.2	942.4
60°	815.8	802.9	820.1	830.8	841.5
62.5°	725.6	710.6	723.5	729.9	738.5
65°	633.3	618.3	629.0	633.3	644.0
67.5°	545.3	534.6	536.7	543.1	547.4
70°	465.9	453.0	453.0	453.0	455.1
72.5°	392.9	373.5	371.4	373.5	373.5
75°	313.4	300.6	296.3	296.3	294.1
77.5°	251.2	234.0	231.9	227.6	223.3
80°	182.5	167.5	163.2	161.0	158.9
82.5°	126.7	113.8	109.5	105.2	98.8
85°	75.1	66.6	58.0	51.5	45.1
87.5°	27.9	25.8	21.5	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)