

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: P295983

Luminaire Tested: **24RLN-LD5-60-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295983
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-LD5-60-UNV-L93050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4687.0 lumens
Efficiency: N/A
Efficacy: 105.9 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

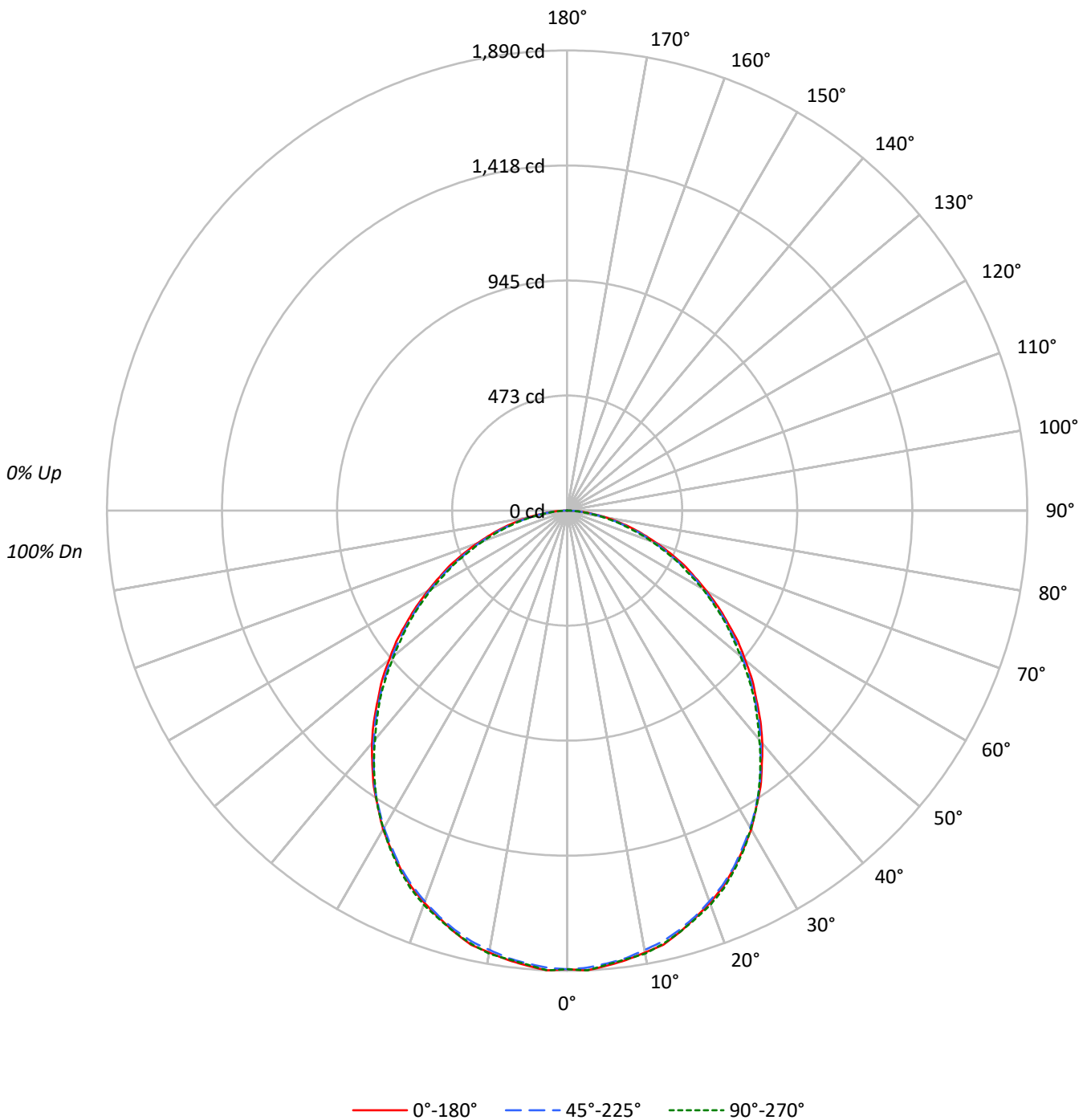
Input Watts (W): 44.268
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2535	2535	2535
5°	2534	2522	2528
10°	2518	2504	2525
15°	2496	2483	2496
20°	2455	2446	2466
25°	2406	2402	2415
30°	2349	2337	2344
35°	2275	2265	2260
40°	2191	2170	2157
45°	2092	2072	2063
50°	1997	1966	1943
55°	1890	1862	1844
60°	1778	1746	1725
65°	1680	1618	1603
70°	1541	1481	1451
75°	1415	1328	1274
80°	1242	1160	1089
85°	1003	934	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	3.8
10°-20°	504.0	10.8
20°-30°	745.5	15.9
30°-40°	860.3	18.4
40°-50°	840.3	17.9
50°-60°	709.6	15.1
60°-70°	505.4	10.8
70°-80°	273.6	5.8
80°-90°	70.6	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°	1427.2	30.4
0°-40°	2287.5	48.8
0°-60°	3837.3	81.9
0°-90°	4687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1884	1884	1884	1884	1884	
5°	1876	1876	1867	1872	1872	178
15°	1792	1784	1783	1790	1792	505
25°	1621	1612	1618	1624	1627	746
35°	1385	1374	1379	1374	1376	864
45°	1099	1090	1089	1084	1084	850
55°	806	795	794	786	786	723
65°	528	517	508	502	504	520
75°	272	263	256	250	245	288
85°	65	64	60	53	51	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1884.0	1884.0	1884.0	1884.0	1884.0
2.5°	1890.1	1882.5	1879.5	1881.0	1890.1
5°	1876.5	1876.5	1867.4	1871.9	1871.9
7.5°	1861.4	1862.9	1853.8	1861.4	1858.3
10°	1843.2	1838.7	1832.6	1844.7	1847.8
12.5°	1826.6	1816.0	1813.0	1820.5	1822.0
15°	1791.8	1784.2	1782.7	1790.3	1791.8
17.5°	1752.5	1754.0	1748.0	1758.5	1757.0
20°	1714.7	1711.7	1708.6	1720.7	1722.2
22.5°	1672.4	1663.3	1666.3	1676.9	1679.9
25°	1620.9	1611.9	1617.9	1624.0	1627.0
27.5°	1566.5	1562.0	1560.5	1568.0	1571.0
30°	1512.1	1504.5	1504.5	1513.6	1509.0
32.5°	1445.5	1439.5	1442.5	1445.5	1447.1
35°	1385.1	1374.5	1379.0	1374.5	1376.0
37.5°	1314.0	1306.4	1304.9	1303.4	1303.4
40°	1247.5	1241.4	1235.4	1235.4	1227.8
42.5°	1174.9	1167.3	1164.3	1159.8	1155.2
45°	1099.3	1090.2	1088.7	1084.2	1084.2
47.5°	1031.2	1017.6	1016.1	1007.0	1007.0
50°	954.1	945.0	939.0	932.9	928.4
52.5°	884.6	875.5	866.4	860.4	855.8
55°	805.9	795.3	793.8	786.3	786.3
57.5°	734.9	725.8	719.7	710.7	712.2
60°	660.8	651.7	648.7	641.1	641.1
62.5°	591.2	583.7	579.1	571.6	565.5
65°	527.7	517.1	508.1	502.0	503.5
67.5°	458.2	446.1	441.5	435.5	430.9
70°	391.6	384.1	376.5	368.9	368.9
72.5°	329.6	322.1	317.5	308.5	305.4
75°	272.2	263.1	255.5	249.5	245.0
77.5°	214.7	205.6	201.1	193.5	193.5
80°	160.3	154.2	149.7	146.7	140.6
82.5°	110.4	107.4	102.8	98.3	93.7
85°	65.0	63.5	60.5	52.9	51.4
87.5°	25.7	25.7	22.7	21.2	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)