

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: P296133

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296133
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-L83050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5825.0 lumens
Efficiency: N/A
Efficacy: 106.0 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

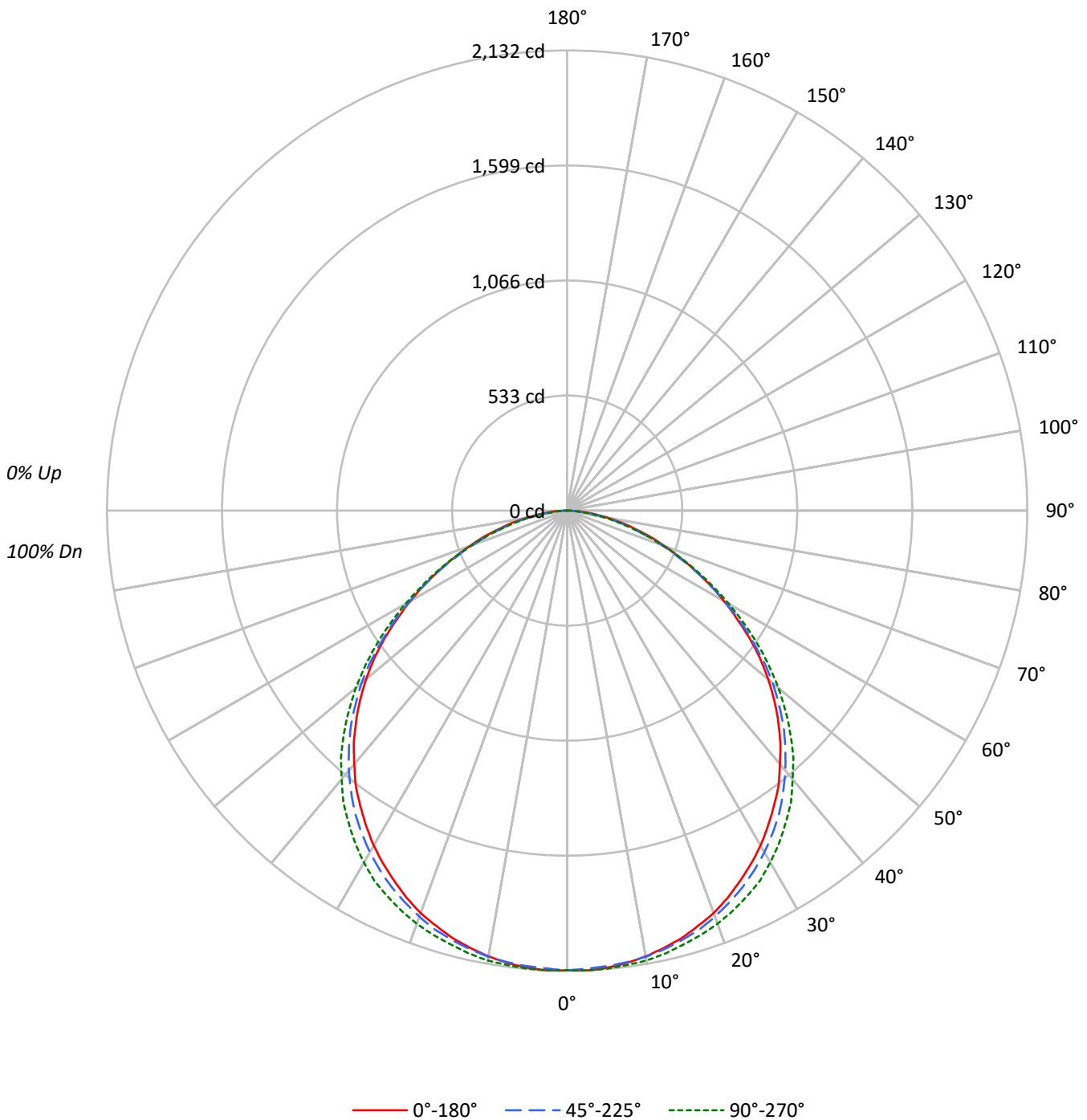
Input Watts (W): 54.963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2866	2866	2866
5°	2871	2862	2877
10°	2865	2868	2892
15°	2857	2869	2900
20°	2841	2867	2917
25°	2812	2857	2926
30°	2784	2839	2925
35°	2744	2813	2900
40°	2694	2764	2853
45°	2632	2700	2784
50°	2544	2604	2674
55°	2421	2452	2525
60°	2260	2271	2331
65°	2075	2061	2110
70°	1886	1834	1843
75°	1677	1585	1574
80°	1455	1301	1267
85°	1193	922	716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.0	3.5
10°-20°	582.4	10.0
20°-30°	889.0	15.3
30°-40°	1071.8	18.4
40°-50°	1093.0	18.8
50°-60°	935.4	16.1
60°-70°	644.3	11.1
70°-80°	330.3	5.7
80°-90°	76.9	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°	1673.4	28.7
0°-40°	2745.2	47.1
0°-60°	4773.5	81.9
0°-90°	5825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2130	2130	2130	2130	2130	
5°	2126	2121	2119	2126	2130	202
15°	2051	2048	2060	2075	2082	578
25°	1894	1900	1925	1958	1971	873
35°	1671	1677	1713	1750	1766	1045
45°	1383	1386	1419	1454	1463	1066
55°	1032	1025	1045	1067	1076	921
65°	652	636	648	652	663	648
75°	323	309	305	305	303	348
85°	77	68	60	53	46	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2130.2	2130.2	2130.2	2130.2	2130.2
2.5°	2132.4	2128.0	2123.6	2128.0	2132.4
5°	2125.8	2121.4	2119.2	2125.8	2130.2
7.5°	2114.8	2110.3	2110.3	2119.2	2123.6
10°	2097.1	2094.9	2099.3	2108.1	2117.0
12.5°	2075.0	2075.0	2081.6	2092.7	2101.5
15°	2050.7	2048.5	2059.5	2075.0	2081.6
17.5°	2017.5	2019.7	2035.2	2052.9	2061.7
20°	1984.4	1986.6	2002.1	2026.4	2037.4
22.5°	1942.4	1946.8	1964.5	1995.4	2006.5
25°	1893.8	1900.4	1924.7	1957.9	1971.1
27.5°	1845.2	1851.8	1878.3	1915.9	1933.6
30°	1792.1	1801.0	1827.5	1867.3	1882.7
32.5°	1732.5	1739.1	1772.2	1812.0	1827.5
35°	1670.6	1677.2	1712.6	1750.1	1765.6
37.5°	1608.7	1608.7	1644.1	1688.3	1703.7
40°	1533.6	1535.8	1573.4	1615.3	1624.2
42.5°	1462.9	1462.9	1496.0	1535.8	1551.3
45°	1383.3	1385.5	1418.7	1454.0	1462.9
47.5°	1301.6	1301.6	1330.3	1363.4	1372.3
50°	1215.4	1211.0	1244.1	1270.6	1277.3
52.5°	1127.0	1120.4	1146.9	1169.0	1177.8
55°	1032.0	1025.3	1045.2	1067.3	1076.2
57.5°	932.5	923.7	945.8	965.7	970.1
60°	839.7	826.5	844.1	855.2	866.2
62.5°	746.9	731.4	744.7	751.3	760.2
65°	651.9	636.4	647.5	651.9	662.9
67.5°	561.3	550.2	552.4	559.1	563.5
70°	479.5	466.3	466.3	466.3	468.5
72.5°	404.4	384.5	382.3	384.5	384.5
75°	322.6	309.4	304.9	304.9	302.7
77.5°	258.5	240.9	238.7	234.2	229.8
80°	187.8	172.4	167.9	165.7	163.5
82.5°	130.4	117.1	112.7	108.3	101.6
85°	77.3	68.5	59.7	53.0	46.4
87.5°	28.7	26.5	22.1	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)