

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: P295932

Luminaire Tested: **24RLN-LD5-67-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295932
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-LD5-67-UNV-L82765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6964.0 lumens
Efficiency: N/A
Efficacy: 139.2 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

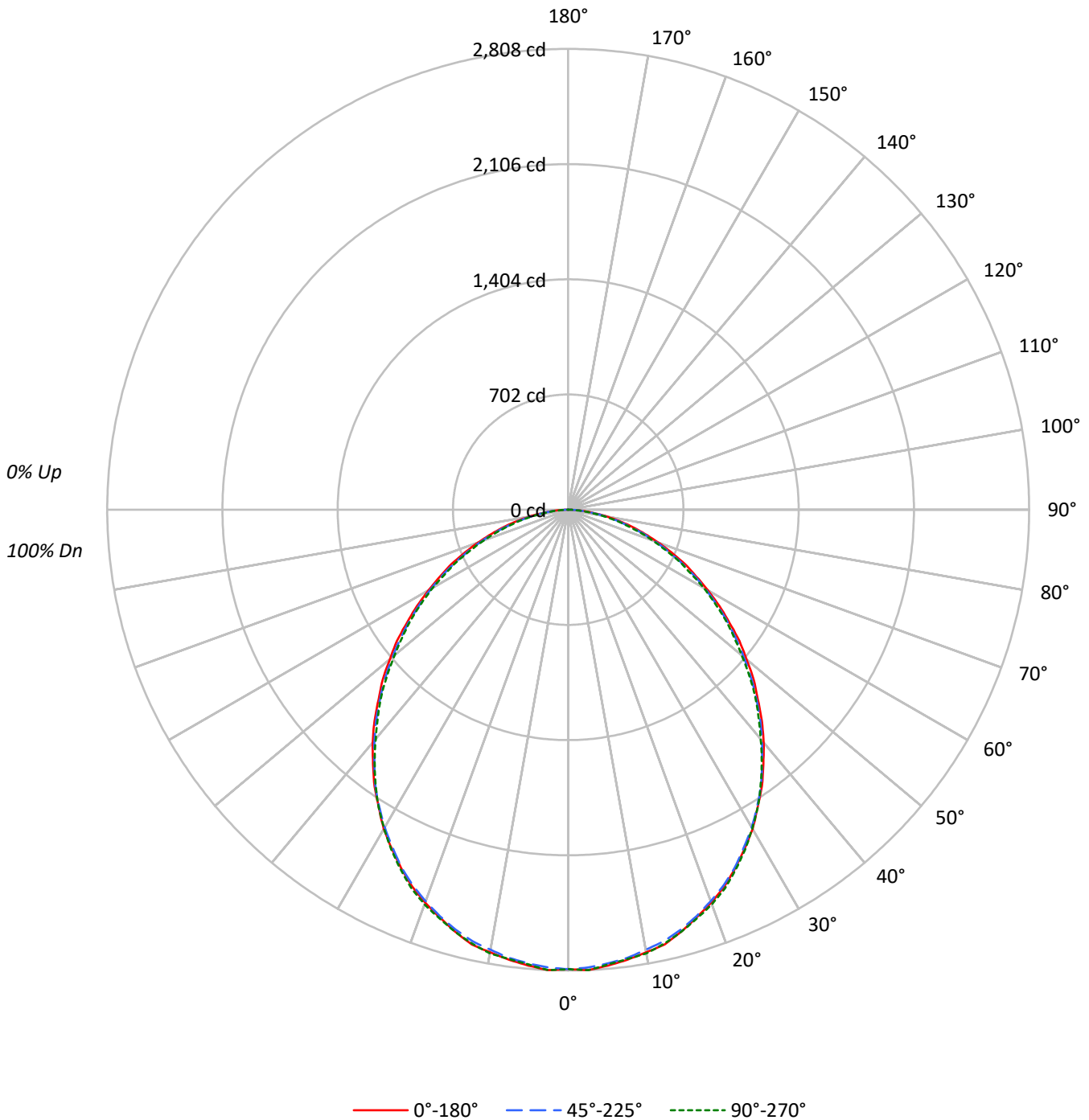
Input Watts (W): 50.034
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3766	3766	3766
5°	3766	3747	3757
10°	3742	3720	3751
15°	3708	3690	3708
20°	3648	3635	3664
25°	3575	3569	3589
30°	3491	3473	3484
35°	3380	3365	3358
40°	3256	3224	3204
45°	3108	3078	3065
50°	2967	2920	2887
55°	2809	2767	2741
60°	2642	2594	2563
65°	2496	2403	2382
70°	2289	2201	2157
75°	2102	1974	1892
80°	1845	1723	1619
85°	1491	1388	1179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	3.8
10°-20°	748.8	10.8
20°-30°	1107.6	15.9
30°-40°	1278.3	18.4
40°-50°	1248.5	17.9
50°-60°	1054.3	15.1
60°-70°	750.9	10.8
70°-80°	406.6	5.8
80°-90°	104.9	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°	2120.5	30.4
0°-40°	3398.8	48.8
0°-60°	5701.6	81.9
0°-90°	6964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2799	2799	2799	2799	2799	
5°	2788	2788	2775	2781	2781	265
15°	2662	2651	2649	2660	2662	750
25°	2408	2395	2404	2413	2417	1109
35°	2058	2042	2049	2042	2044	1284
45°	1633	1620	1618	1611	1611	1263
55°	1198	1182	1180	1168	1168	1074
65°	784	768	755	746	748	773
75°	404	391	380	371	364	428
85°	97	94	90	79	76	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2799.3	2799.3	2799.3	2799.3	2799.3
2.5°	2808.3	2797.1	2792.6	2794.8	2808.3
5°	2788.1	2788.1	2774.6	2781.4	2781.4
7.5°	2765.6	2767.9	2754.4	2765.6	2761.1
10°	2738.7	2731.9	2722.9	2740.9	2745.4
12.5°	2714.0	2698.2	2693.7	2705.0	2707.2
15°	2662.3	2651.1	2648.8	2660.0	2662.3
17.5°	2603.9	2606.1	2597.1	2612.9	2610.6
20°	2547.7	2543.2	2538.7	2556.7	2558.9
22.5°	2484.8	2471.3	2475.8	2491.5	2496.0
25°	2408.4	2394.9	2403.9	2412.9	2417.4
27.5°	2327.5	2320.8	2318.5	2329.8	2334.3
30°	2246.7	2235.4	2235.4	2248.9	2242.2
32.5°	2147.8	2138.8	2143.3	2147.8	2150.0
35°	2057.9	2042.2	2048.9	2042.2	2044.5
37.5°	1952.3	1941.1	1938.9	1936.6	1936.6
40°	1853.5	1844.5	1835.5	1835.5	1824.3
42.5°	1745.6	1734.4	1729.9	1723.2	1716.4
45°	1633.3	1619.8	1617.6	1610.9	1610.9
47.5°	1532.2	1512.0	1509.8	1496.3	1496.3
50°	1417.6	1404.2	1395.2	1386.2	1379.4
52.5°	1314.3	1300.8	1287.3	1278.3	1271.6
55°	1197.5	1181.7	1179.5	1168.3	1168.3
57.5°	1091.9	1078.4	1069.4	1055.9	1058.2
60°	981.8	968.3	963.8	952.6	952.6
62.5°	878.4	867.2	860.5	849.2	840.2
65°	784.1	768.4	754.9	745.9	748.1
67.5°	680.7	662.8	656.0	647.0	640.3
70°	581.9	570.6	559.4	548.2	548.2
72.5°	489.8	478.5	471.8	458.3	453.8
75°	404.4	390.9	379.7	370.7	364.0
77.5°	319.0	305.5	298.8	287.6	287.6
80°	238.1	229.2	222.4	217.9	208.9
82.5°	164.0	159.5	152.8	146.0	139.3
85°	96.6	94.4	89.9	78.6	76.4
87.5°	38.2	38.2	33.7	31.5	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)