

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: P295923

Luminaire Tested: **24RLN-LD5-60-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295923
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-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: 6264.0 lumens
Efficiency: N/A
Efficacy: 140.9 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

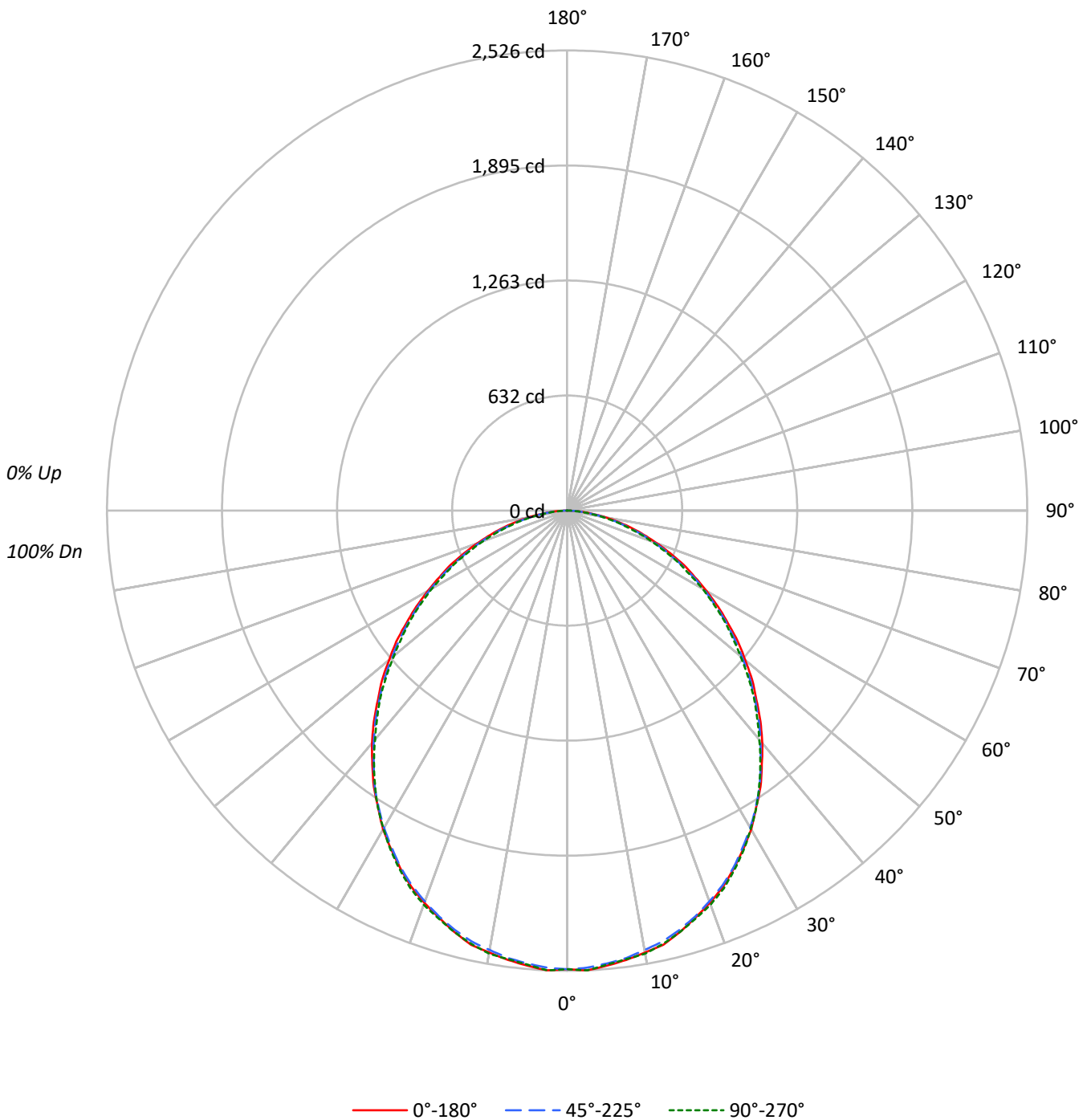
Input Watts (W): 44.454
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3388	3388	3388
5°	3387	3371	3379
10°	3366	3346	3374
15°	3336	3319	3336
20°	3281	3270	3296
25°	3216	3210	3228
30°	3140	3124	3133
35°	3041	3027	3021
40°	2928	2900	2882
45°	2795	2769	2757
50°	2669	2627	2597
55°	2527	2489	2465
60°	2376	2333	2306
65°	2245	2162	2142
70°	2059	1980	1940
75°	1891	1775	1702
80°	1660	1550	1456
85°	1342	1247	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	3.8
10°-20°	673.5	10.8
20°-30°	996.3	15.9
30°-40°	1149.8	18.4
40°-50°	1123.0	17.9
50°-60°	948.3	15.1
60°-70°	675.4	10.8
70°-80°	365.7	5.8
80°-90°	94.4	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°	1907.4	30.4
0°-40°	3057.2	48.8
0°-60°	5128.4	81.9
0°-90°	6264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2518	2518	2518	2518	2518	
5°	2508	2508	2496	2502	2502	238
15°	2395	2385	2383	2393	2395	675
25°	2166	2154	2162	2170	2174	997
35°	1851	1837	1843	1837	1839	1155
45°	1469	1457	1455	1449	1449	1136
55°	1077	1063	1061	1051	1051	966
65°	705	691	679	671	673	695
75°	364	352	342	333	327	385
85°	87	85	81	71	69	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2517.9	2517.9	2517.9	2517.9	2517.9
2.5°	2526.0	2515.9	2511.9	2513.9	2526.0
5°	2507.8	2507.8	2495.7	2501.8	2501.8
7.5°	2487.6	2489.7	2477.5	2487.6	2483.6
10°	2463.4	2457.3	2449.2	2465.4	2469.4
12.5°	2441.2	2427.0	2423.0	2433.1	2435.1
15°	2394.7	2384.6	2382.6	2392.7	2394.7
17.5°	2342.1	2344.2	2336.1	2350.2	2348.2
20°	2291.6	2287.6	2283.5	2299.7	2301.7
22.5°	2235.0	2222.9	2227.0	2241.1	2245.1
25°	2166.3	2154.2	2162.3	2170.4	2174.4
27.5°	2093.6	2087.5	2085.5	2095.6	2099.6
30°	2020.8	2010.7	2010.7	2022.8	2016.8
32.5°	1931.9	1923.8	1927.9	1931.9	1933.9
35°	1851.1	1836.9	1843.0	1836.9	1839.0
37.5°	1756.1	1746.0	1744.0	1742.0	1742.0
40°	1667.2	1659.1	1651.0	1651.0	1640.9
42.5°	1570.2	1560.1	1556.0	1550.0	1543.9
45°	1469.1	1457.0	1455.0	1448.9	1448.9
47.5°	1378.2	1360.0	1358.0	1345.9	1345.9
50°	1275.1	1263.0	1254.9	1246.8	1240.8
52.5°	1182.2	1170.1	1157.9	1149.9	1143.8
55°	1077.1	1063.0	1060.9	1050.8	1050.8
57.5°	982.1	970.0	961.9	949.8	951.8
60°	883.1	871.0	866.9	856.8	856.8
62.5°	790.1	780.0	774.0	763.9	755.8
65°	705.3	691.1	679.0	670.9	672.9
67.5°	612.3	596.1	590.1	582.0	575.9
70°	523.4	513.3	503.2	493.1	493.1
72.5°	440.5	430.4	424.4	412.2	408.2
75°	363.7	351.6	341.5	333.4	327.4
77.5°	287.0	274.8	268.8	258.7	258.7
80°	214.2	206.1	200.1	196.0	187.9
82.5°	147.5	143.5	137.4	131.4	125.3
85°	86.9	84.9	80.8	70.7	68.7
87.5°	34.4	34.4	30.3	28.3	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)