

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: P295936

Luminaire Tested: **24RLN-LD5-74-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295936
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-LD5-74-UNV-L82765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7018.0 lumens
Efficiency: N/A
Efficacy: 128.3 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

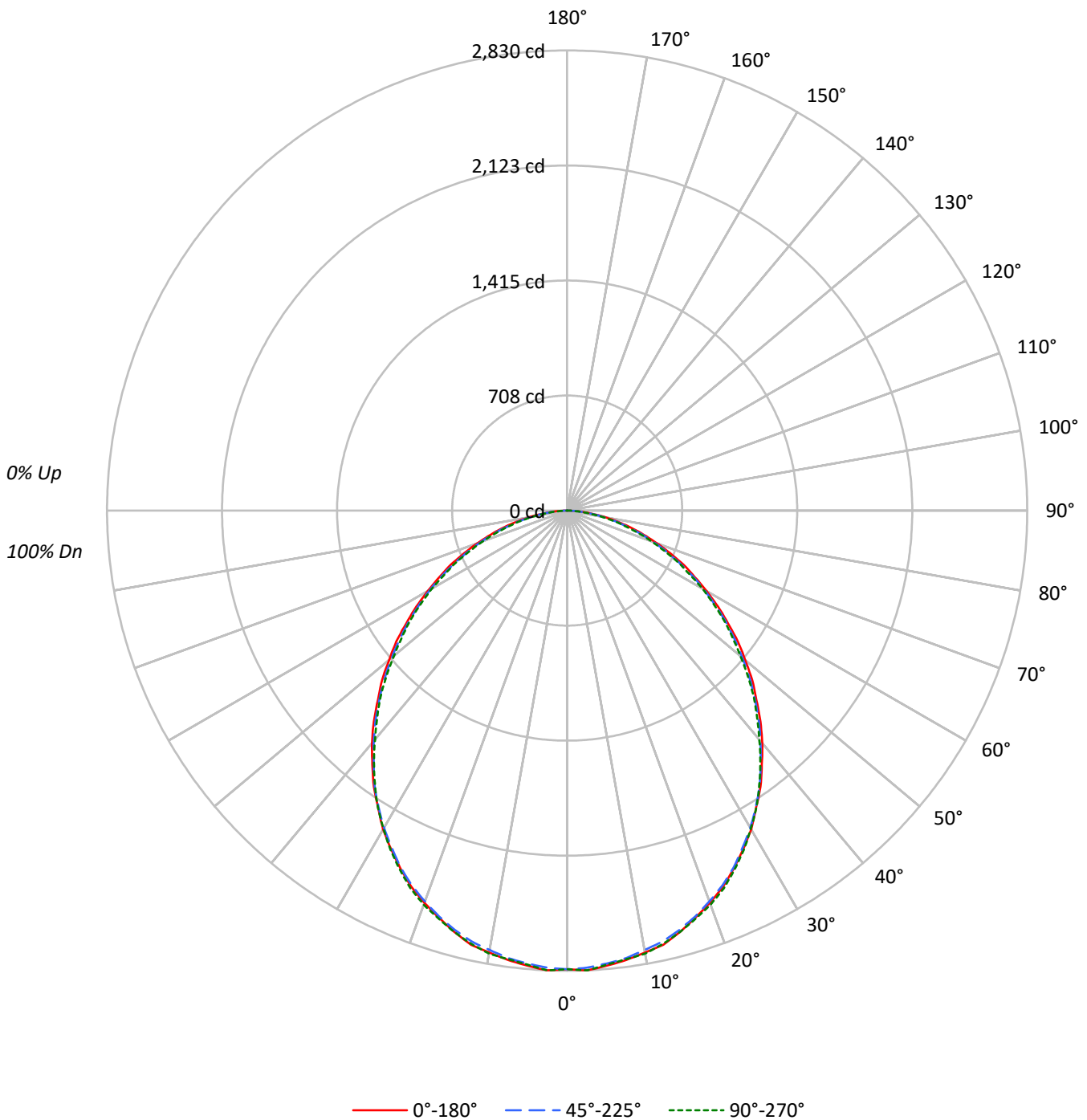
Input Watts (W): 54.684
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3796	3796	3796
5°	3795	3776	3786
10°	3771	3749	3780
15°	3737	3718	3737
20°	3676	3663	3692
25°	3603	3597	3617
30°	3518	3500	3510
35°	3406	3392	3384
40°	3281	3249	3229
45°	3132	3102	3089
50°	2990	2943	2910
55°	2831	2788	2762
60°	2662	2614	2583
65°	2516	2422	2400
70°	2307	2218	2173
75°	2118	1989	1907
80°	1860	1736	1632
85°	1504	1399	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.2	3.8
10°-20°	754.6	10.8
20°-30°	1116.2	15.9
30°-40°	1288.2	18.4
40°-50°	1258.2	17.9
50°-60°	1062.4	15.1
60°-70°	756.8	10.8
70°-80°	409.7	5.8
80°-90°	105.7	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°	2137.0	30.4
0°-40°	3425.1	48.8
0°-60°	5745.8	81.9
0°-90°	7018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7018.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2821	2821	2821	2821	2821	
5°	2810	2810	2796	2803	2803	267
15°	2683	2672	2669	2681	2683	756
25°	2427	2414	2423	2432	2436	1117
35°	2074	2058	2065	2058	2060	1294
45°	1646	1632	1630	1623	1623	1273
55°	1207	1191	1189	1177	1177	1082
65°	790	774	761	752	754	779
75°	408	394	383	374	367	431
85°	97	95	91	79	77	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2821.0	2821.0	2821.0	2821.0	2821.0
2.5°	2830.1	2818.8	2814.2	2816.5	2830.1
5°	2809.7	2809.7	2796.1	2802.9	2802.9
7.5°	2787.1	2789.3	2775.8	2787.1	2782.5
10°	2759.9	2753.1	2744.1	2762.2	2766.7
12.5°	2735.0	2719.2	2714.6	2725.9	2728.2
15°	2682.9	2671.6	2669.3	2680.7	2682.9
17.5°	2624.1	2626.3	2617.3	2633.1	2630.9
20°	2567.5	2562.9	2558.4	2576.5	2578.8
22.5°	2504.1	2490.5	2495.0	2510.9	2515.4
25°	2427.1	2413.5	2422.6	2431.6	2436.1
27.5°	2345.6	2338.8	2336.5	2347.8	2352.4
30°	2264.1	2252.8	2252.8	2266.3	2259.5
32.5°	2164.5	2155.4	2159.9	2164.5	2166.7
35°	2073.9	2058.0	2064.8	2058.0	2060.3
37.5°	1967.5	1956.2	1953.9	1951.6	1951.6
40°	1867.9	1858.8	1849.7	1849.7	1838.4
42.5°	1759.2	1747.9	1743.3	1736.5	1729.8
45°	1646.0	1632.4	1630.1	1623.3	1623.3
47.5°	1544.1	1523.7	1521.5	1507.9	1507.9
50°	1428.6	1415.0	1406.0	1396.9	1390.1
52.5°	1324.5	1310.9	1297.3	1288.3	1281.5
55°	1206.8	1190.9	1188.6	1177.3	1177.3
57.5°	1100.3	1086.8	1077.7	1064.1	1066.4
60°	989.4	975.8	971.3	960.0	960.0
62.5°	885.3	873.9	867.1	855.8	846.8
65°	790.2	774.3	760.7	751.7	753.9
67.5°	686.0	667.9	661.1	652.1	645.3
70°	586.4	575.1	563.8	552.4	552.4
72.5°	493.6	482.2	475.5	461.9	457.3
75°	407.5	393.9	382.6	373.6	366.8
77.5°	321.5	307.9	301.1	289.8	289.8
80°	240.0	230.9	224.1	219.6	210.6
82.5°	165.3	160.7	154.0	147.2	140.4
85°	97.4	95.1	90.6	79.2	77.0
87.5°	38.5	38.5	34.0	31.7	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)