

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: P295857

Luminaire Tested: **24RLN-LD5-74-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295857
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-L83050-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7880.0 lumens
Efficiency: N/A
Efficacy: 136.4 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

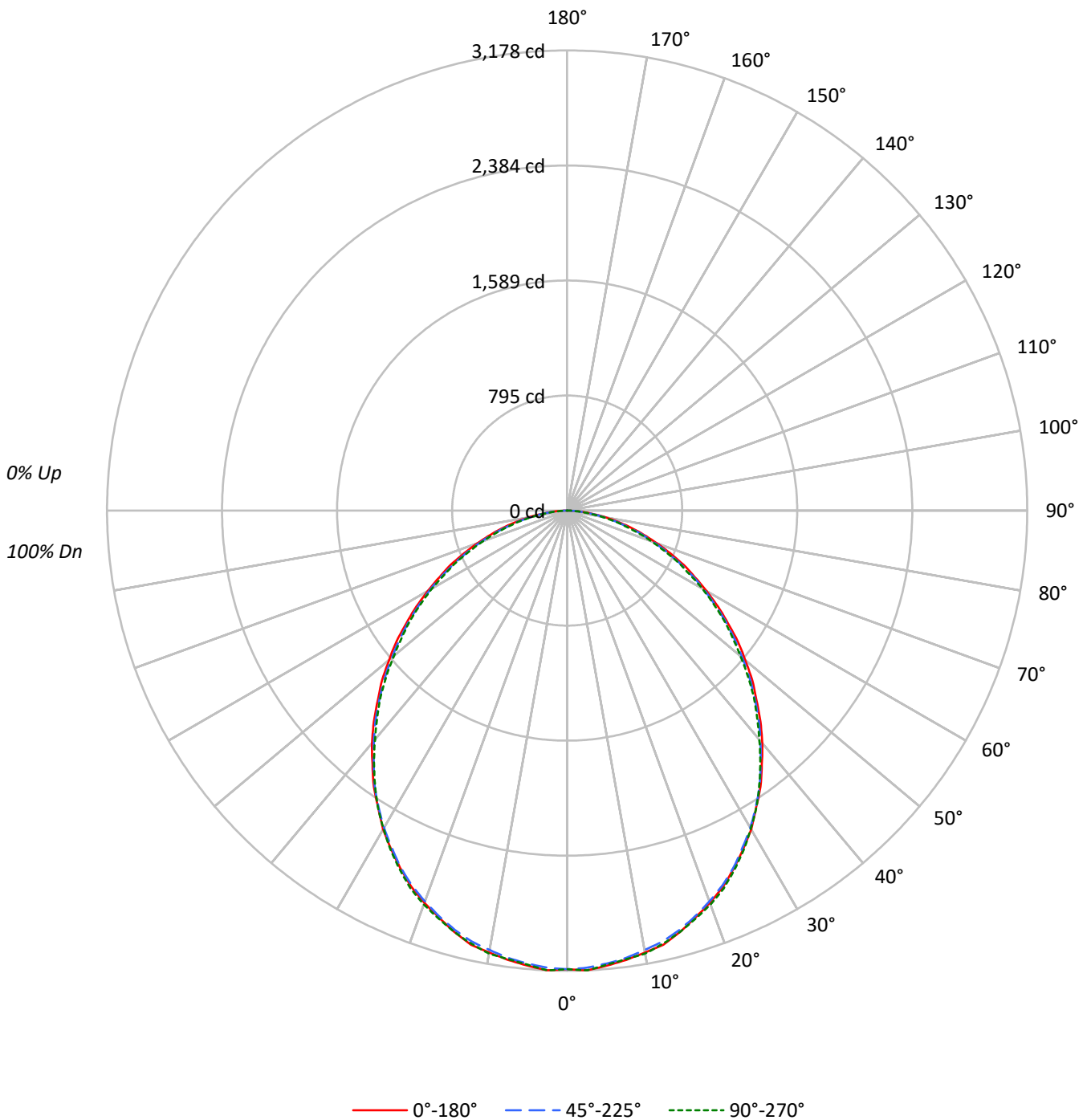
Input Watts (W): 57.753
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4262	4262	4262
5°	4261	4240	4251
10°	4234	4210	4244
15°	4196	4175	4196
20°	4128	4113	4146
25°	4046	4038	4061
30°	3950	3930	3942
35°	3825	3808	3800
40°	3684	3648	3626
45°	3517	3483	3468
50°	3358	3305	3267
55°	3179	3131	3101
60°	2989	2935	2901
65°	2825	2720	2695
70°	2590	2490	2440
75°	2379	2233	2141
80°	2088	1950	1832
85°	1687	1570	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	3.8
10°-20°	847.3	10.8
20°-30°	1253.3	15.9
30°-40°	1446.4	18.4
40°-50°	1412.7	17.9
50°-60°	1192.9	15.1
60°-70°	849.7	10.8
70°-80°	460.1	5.8
80°-90°	118.7	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°	2399.4	30.4
0°-40°	3845.8	48.8
0°-60°	6451.5	81.9
0°-90°	7880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3168	3168	3168	3168	3168	
5°	3155	3155	3140	3147	3147	299
15°	3012	3000	2997	3010	3012	849
25°	2725	2710	2720	2730	2735	1255
35°	2329	2311	2318	2311	2313	1453
45°	1848	1833	1830	1823	1823	1429
55°	1355	1337	1335	1322	1322	1215
65°	887	869	854	844	846	875
75°	458	442	430	420	412	484
85°	109	107	102	89	86	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3167.5	3167.5	3167.5	3167.5	3167.5
2.5°	3177.7	3165.0	3159.9	3162.5	3177.7
5°	3154.8	3154.8	3139.6	3147.2	3147.2
7.5°	3129.4	3131.9	3116.7	3129.4	3124.3
10°	3098.9	3091.3	3081.1	3101.4	3106.5
12.5°	3070.9	3053.1	3048.1	3060.8	3063.3
15°	3012.5	2999.8	2997.2	3009.9	3012.5
17.5°	2946.4	2948.9	2938.7	2956.5	2954.0
20°	2882.8	2877.7	2872.6	2893.0	2895.5
22.5°	2811.6	2796.4	2801.5	2819.3	2824.3
25°	2725.2	2709.9	2720.1	2730.3	2735.4
27.5°	2633.7	2626.1	2623.5	2636.2	2641.3
30°	2542.2	2529.5	2529.5	2544.7	2537.1
32.5°	2430.3	2420.1	2425.2	2430.3	2432.9
35°	2328.6	2310.8	2318.5	2310.8	2313.4
37.5°	2209.1	2196.4	2193.9	2191.3	2191.3
40°	2097.3	2087.1	2076.9	2076.9	2064.2
42.5°	1975.3	1962.6	1957.5	1949.8	1942.2
45°	1848.2	1832.9	1830.4	1822.7	1822.7
47.5°	1733.8	1710.9	1708.3	1693.1	1693.1
50°	1604.1	1588.9	1578.7	1568.5	1560.9
52.5°	1487.2	1471.9	1456.7	1446.5	1438.9
55°	1355.0	1337.2	1334.6	1321.9	1321.9
57.5°	1235.5	1220.2	1210.1	1194.8	1197.4
60°	1110.9	1095.7	1090.6	1077.9	1077.9
62.5°	994.0	981.3	973.6	960.9	950.8
65°	887.2	869.4	854.2	844.0	846.5
67.5°	770.3	749.9	742.3	732.1	724.5
70°	658.4	645.7	633.0	620.3	620.3
72.5°	554.2	541.5	533.9	518.6	513.5
75°	457.6	442.3	429.6	419.5	411.8
77.5°	361.0	345.7	338.1	325.4	325.4
80°	269.5	259.3	251.7	246.6	236.4
82.5°	185.6	180.5	172.9	165.2	157.6
85°	109.3	106.8	101.7	89.0	86.4
87.5°	43.2	43.2	38.1	35.6	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)