

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: P295952

Luminaire Tested: **24RLN-LD5-80-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295952
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-LD5-80-UNV-L82765-W2A1-U-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8428.0 lumens
Efficiency: N/A
Efficacy: 132.9 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

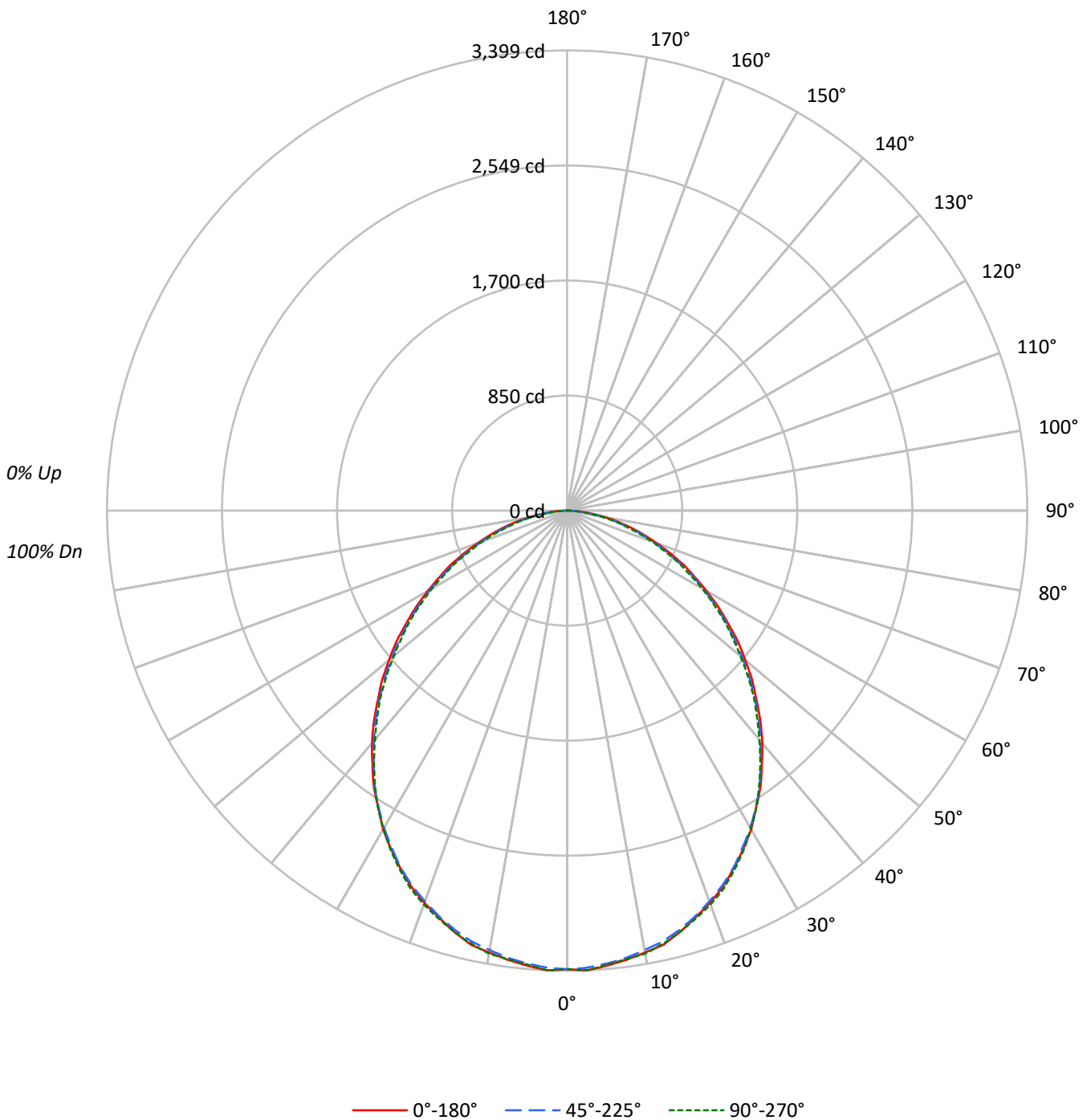
Input Watts (W): 63.426
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295952

CATALOG NUMBER: 24RLN-LD5-80-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P295952

CATALOG NUMBER: 24RLN-LD5-80-UNV-L82765-W2A1-U-6500K

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°	4558	4558	4558
5°	4557	4535	4546
10°	4528	4502	4539
15°	4488	4465	4488
20°	4415	4399	4434
25°	4327	4319	4343
30°	4224	4203	4216
35°	4091	4073	4064
40°	3940	3902	3878
45°	3761	3725	3710
50°	3591	3534	3494
55°	3400	3349	3317
60°	3197	3139	3102
65°	3021	2909	2883
70°	2770	2663	2610
75°	2544	2389	2290
80°	2233	2086	1960
85°	1805	1680	1426



TEST NUMBER: P295952

CATALOG NUMBER: 24RLN-LD5-80-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.7	3.8
10°-20°	906.2	10.8
20°-30°	1340.5	15.9
30°-40°	1547.0	18.4
40°-50°	1511.0	17.9
50°-60°	1275.9	15.1
60°-70°	908.8	10.8
70°-80°	492.1	5.8
80°-90°	127.0	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°	2566.3	30.4
0°-40°	4113.3	48.8
0°-60°	6900.2	81.9
0°-90°	8428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3388	3388	3388	3388	3388	
5°	3374	3374	3358	3366	3366	320
15°	3222	3208	3206	3219	3222	908
25°	2915	2898	2909	2920	2926	1342
35°	2491	2472	2480	2472	2474	1554
45°	1977	1960	1958	1950	1950	1528
55°	1449	1430	1428	1414	1414	1299
65°	949	930	914	903	905	935
75°	489	473	460	449	440	518
85°	117	114	109	95	92	138
90°	0	0	0	0	0	



TEST NUMBER: P295952

CATALOG NUMBER: 24RLN-LD5-80-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3387.8	3387.8	3387.8	3387.8	3387.8
2.5°	3398.7	3385.1	3379.7	3382.4	3398.7
5°	3374.2	3374.2	3357.9	3366.1	3366.1
7.5°	3347.0	3349.8	3333.4	3347.0	3341.6
10°	3314.4	3306.2	3295.4	3317.1	3322.6
12.5°	3284.5	3265.5	3260.0	3273.6	3276.3
15°	3222.0	3208.4	3205.6	3219.2	3222.0
17.5°	3151.3	3154.0	3143.1	3162.1	3159.4
20°	3083.3	3077.9	3072.4	3094.2	3096.9
22.5°	3007.2	2990.8	2996.3	3015.3	3020.8
25°	2914.7	2898.4	2909.3	2920.2	2925.6
27.5°	2816.8	2808.7	2806.0	2819.6	2825.0
30°	2719.0	2705.4	2705.4	2721.7	2713.5
32.5°	2599.3	2588.4	2593.9	2599.3	2602.0
35°	2490.6	2471.5	2479.7	2471.5	2474.2
37.5°	2362.8	2349.2	2346.5	2343.7	2343.7
40°	2243.1	2232.3	2221.4	2221.4	2207.8
42.5°	2112.6	2099.0	2093.6	2085.4	2077.3
45°	1976.7	1960.4	1957.6	1949.5	1949.5
47.5°	1854.3	1829.9	1827.1	1810.8	1810.8
50°	1715.7	1699.3	1688.5	1677.6	1669.4
52.5°	1590.6	1574.3	1558.0	1547.1	1538.9
55°	1449.2	1430.2	1427.5	1413.9	1413.9
57.5°	1321.4	1305.1	1294.2	1277.9	1280.6
60°	1188.2	1171.9	1166.4	1152.8	1152.8
62.5°	1063.1	1049.5	1041.4	1027.8	1016.9
65°	948.9	929.9	913.6	902.7	905.4
67.5°	823.8	802.1	793.9	783.1	774.9
70°	704.2	690.6	677.0	663.4	663.4
72.5°	592.7	579.1	571.0	554.7	549.2
75°	489.4	473.1	459.5	448.6	440.5
77.5°	386.1	369.8	361.6	348.0	348.0
80°	288.2	277.3	269.2	263.7	252.9
82.5°	198.5	193.0	184.9	176.7	168.6
85°	116.9	114.2	108.8	95.2	92.4
87.5°	46.2	46.2	40.8	38.1	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)