

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: P296232

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-RDP-UNV-L82765-W2A1-U-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6989.0 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

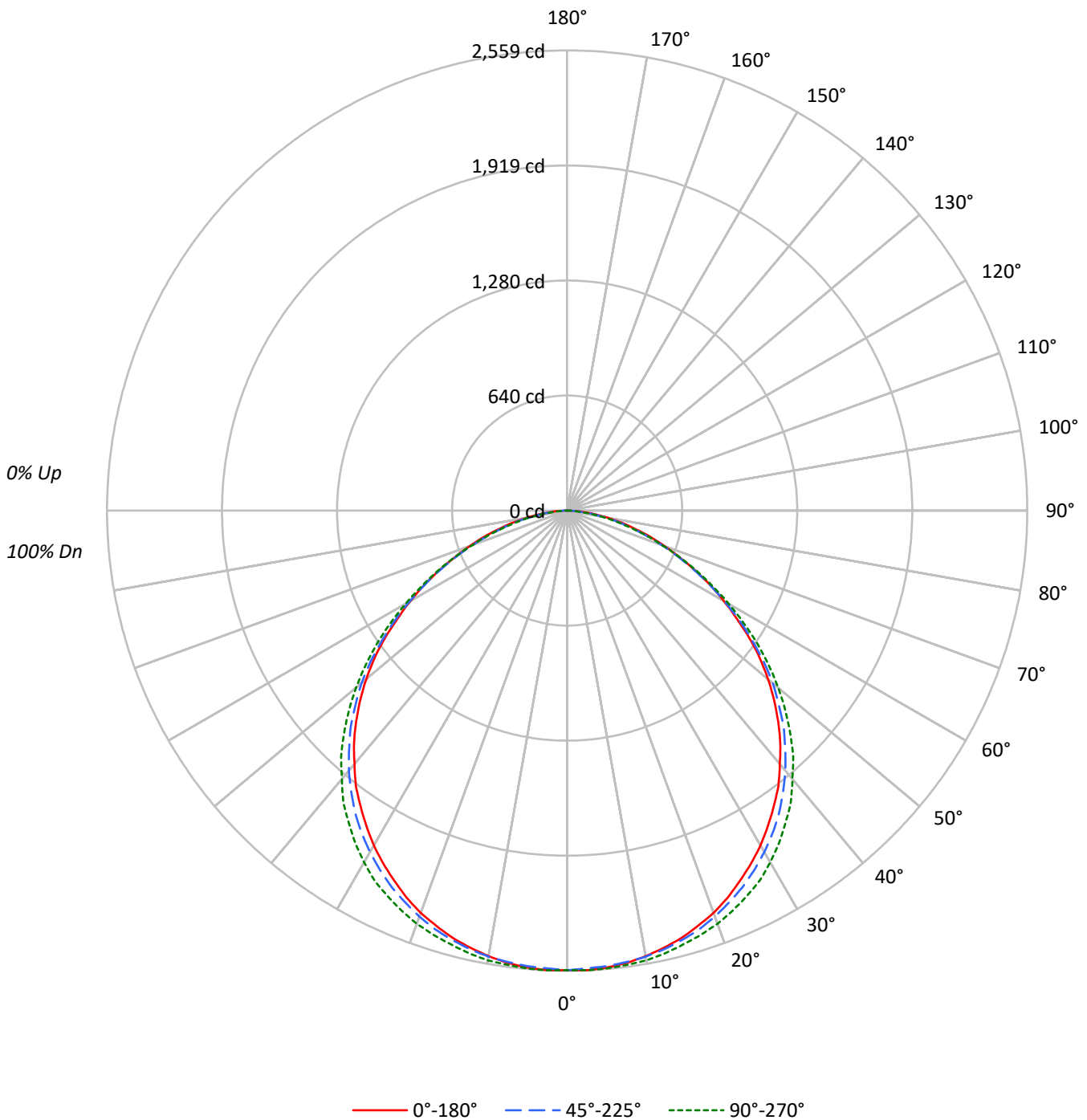
Input Watts (W): 63.426
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	71																												
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60																												
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52																												
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																												
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39																												
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35																												
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31																												
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28																												
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3439	3439	3439
5°	3445	3434	3452
10°	3438	3441	3470
15°	3427	3442	3479
20°	3409	3439	3500
25°	3373	3428	3511
30°	3341	3407	3510
35°	3292	3375	3480
40°	3232	3316	3423
45°	3158	3239	3340
50°	3052	3125	3208
55°	2905	2942	3029
60°	2711	2725	2797
65°	2490	2473	2532
70°	2263	2201	2211
75°	2012	1902	1888
80°	1746	1561	1520
85°	1433	1105	860



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.4	3.5
10°-20°	698.8	10.0
20°-30°	1066.6	15.3
30°-40°	1285.9	18.4
40°-50°	1311.3	18.8
50°-60°	1122.3	16.1
60°-70°	773.1	11.1
70°-80°	396.3	5.7
80°-90°	92.2	1.3
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°	2007.8	28.7
0°-40°	3293.8	47.1
0°-60°	5727.4	81.9
0°-90°	6989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2556	2556	2556	2556	2556	
5°	2551	2545	2543	2551	2556	242
15°	2460	2458	2471	2490	2498	694
25°	2272	2280	2309	2349	2365	1048
35°	2004	2012	2055	2100	2118	1254
45°	1660	1662	1702	1745	1755	1279
55°	1238	1230	1254	1281	1291	1105
65°	782	764	777	782	795	777
75°	387	371	366	366	363	417
85°	93	82	72	64	56	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2555.9	2555.9	2555.9	2555.9	2555.9
2.5°	2558.6	2553.3	2547.9	2553.3	2558.6
5°	2550.6	2545.3	2542.6	2550.6	2555.9
7.5°	2537.3	2532.0	2532.0	2542.6	2547.9
10°	2516.1	2513.5	2518.8	2529.4	2540.0
12.5°	2489.6	2489.6	2497.6	2510.8	2521.4
15°	2460.5	2457.8	2471.1	2489.6	2497.6
17.5°	2420.7	2423.3	2441.9	2463.1	2473.7
20°	2380.9	2383.6	2402.1	2431.3	2444.5
22.5°	2330.5	2335.8	2357.1	2394.2	2407.4
25°	2272.2	2280.2	2309.3	2349.1	2365.0
27.5°	2213.9	2221.8	2253.6	2298.7	2319.9
30°	2150.2	2160.9	2192.7	2240.4	2259.0
32.5°	2078.7	2086.6	2126.4	2174.1	2192.7
35°	2004.4	2012.4	2054.8	2099.9	2118.4
37.5°	1930.2	1930.2	1972.6	2025.6	2044.2
40°	1840.0	1842.7	1887.8	1938.1	1948.7
42.5°	1755.2	1755.2	1795.0	1842.7	1861.2
45°	1659.7	1662.4	1702.2	1744.6	1755.2
47.5°	1561.6	1561.6	1596.1	1635.9	1646.5
50°	1458.2	1452.9	1492.7	1524.5	1532.5
52.5°	1352.2	1344.2	1376.1	1402.6	1413.2
55°	1238.2	1230.2	1254.1	1280.6	1291.2
57.5°	1118.9	1108.3	1134.8	1158.6	1163.9
60°	1007.5	991.6	1012.8	1026.1	1039.3
62.5°	896.2	877.6	893.5	901.5	912.1
65°	782.1	763.6	776.8	782.1	795.4
67.5°	673.4	660.2	662.8	670.8	676.1
70°	575.3	559.4	559.4	559.4	562.1
72.5°	485.2	461.3	458.7	461.3	461.3
75°	387.1	371.2	365.9	365.9	363.2
77.5°	310.2	289.0	286.3	281.0	275.7
80°	225.4	206.8	201.5	198.9	196.2
82.5°	156.4	140.5	135.2	129.9	122.0
85°	92.8	82.2	71.6	63.6	55.7
87.5°	34.5	31.8	26.5	23.9	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)