

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: P296230

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296230
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-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6952.0 lumens
Efficiency: N/A
Efficacy: 111.4 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

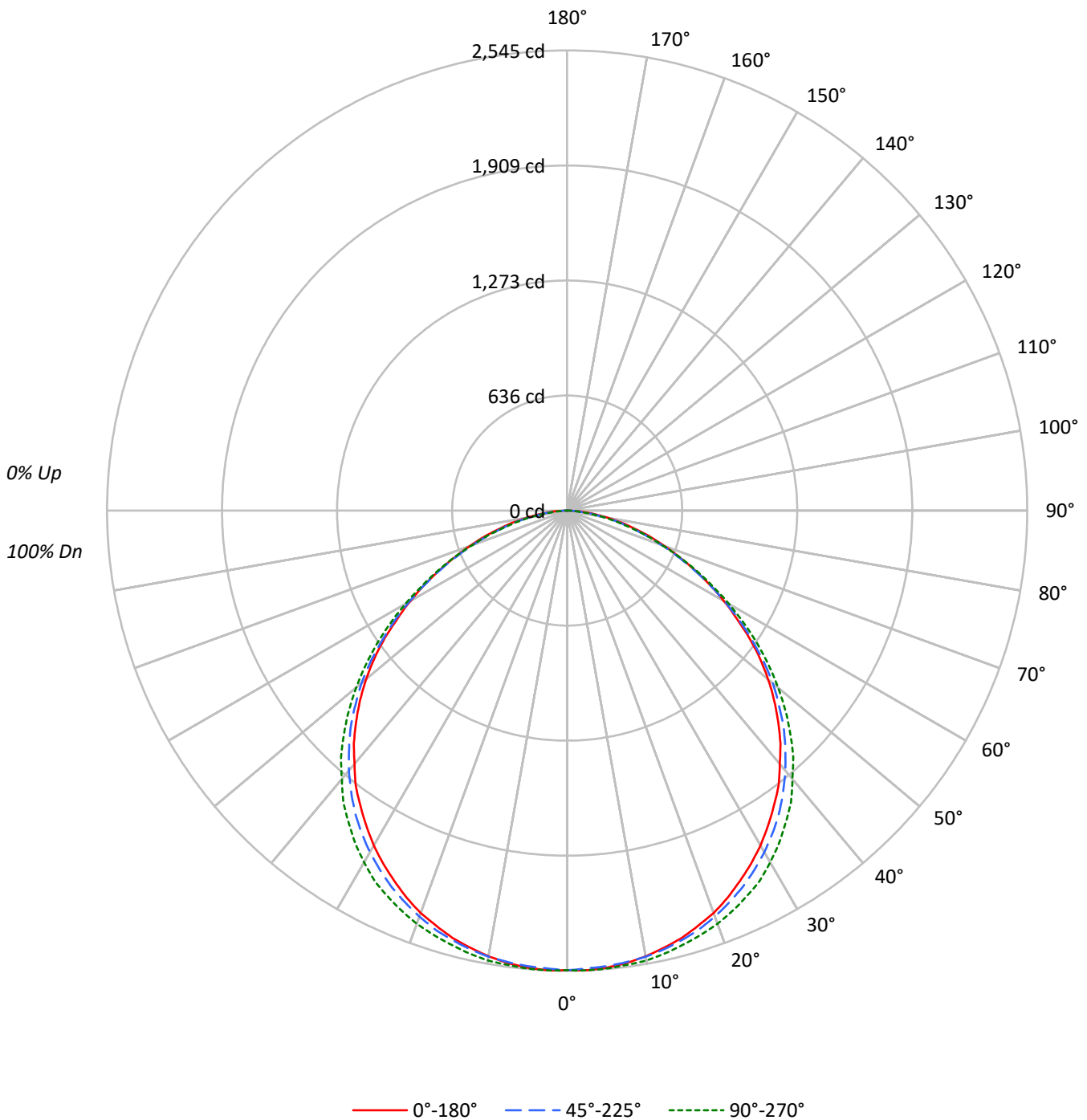
Input Watts (W): 62.403
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3421	3421	3421
5°	3427	3416	3434
10°	3419	3423	3452
15°	3409	3424	3461
20°	3391	3421	3482
25°	3355	3410	3492
30°	3323	3389	3491
35°	3275	3357	3461
40°	3215	3298	3405
45°	3142	3222	3322
50°	3036	3108	3191
55°	2889	2926	3013
60°	2697	2711	2782
65°	2477	2460	2519
70°	2251	2189	2199
75°	2001	1892	1878
80°	1737	1553	1512
85°	1425	1099	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.1	3.5
10°-20°	695.1	10.0
20°-30°	1061.0	15.3
30°-40°	1279.1	18.4
40°-50°	1304.4	18.8
50°-60°	1116.3	16.1
60°-70°	769.0	11.1
70°-80°	394.2	5.7
80°-90°	91.8	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°	1997.2	28.7
0°-40°	3276.3	47.1
0°-60°	5697.1	81.9
0°-90°	6952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2542	2542	2542	2542	2542	
5°	2537	2532	2529	2537	2542	241
15°	2447	2445	2458	2476	2484	690
25°	2260	2268	2297	2337	2352	1042
35°	1994	2002	2044	2089	2107	1247
45°	1651	1654	1693	1735	1746	1272
55°	1232	1224	1248	1274	1284	1099
65°	778	760	773	778	791	773
75°	385	369	364	364	361	415
85°	92	82	71	63	55	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2542.4	2542.4	2542.4	2542.4	2542.4
2.5°	2545.0	2539.7	2534.5	2539.7	2545.0
5°	2537.1	2531.8	2529.2	2537.1	2542.4
7.5°	2523.9	2518.6	2518.6	2529.2	2534.5
10°	2502.8	2500.2	2505.5	2516.0	2526.5
12.5°	2476.4	2476.4	2484.4	2497.5	2508.1
15°	2447.4	2444.8	2458.0	2476.4	2484.4
17.5°	2407.9	2410.5	2429.0	2450.1	2460.6
20°	2368.3	2370.9	2389.4	2418.4	2431.6
22.5°	2318.2	2323.5	2344.6	2381.5	2394.7
25°	2260.2	2268.1	2297.1	2336.7	2352.5
27.5°	2202.2	2210.1	2241.7	2286.6	2307.7
30°	2138.9	2149.4	2181.1	2228.5	2247.0
32.5°	2067.7	2075.6	2115.1	2162.6	2181.1
35°	1993.8	2001.7	2043.9	2088.8	2107.2
37.5°	1920.0	1920.0	1962.2	2014.9	2033.4
40°	1830.3	1832.9	1877.8	1927.9	1938.4
42.5°	1745.9	1745.9	1785.5	1832.9	1851.4
45°	1651.0	1653.6	1693.2	1735.4	1745.9
47.5°	1553.4	1553.4	1587.7	1627.2	1637.8
50°	1450.5	1445.2	1484.8	1516.5	1524.4
52.5°	1345.0	1337.1	1368.8	1395.1	1405.7
55°	1231.6	1223.7	1247.5	1273.8	1284.4
57.5°	1112.9	1102.4	1128.8	1152.5	1157.8
60°	1002.2	986.4	1007.5	1020.6	1033.8
62.5°	891.4	873.0	888.8	896.7	907.2
65°	778.0	759.5	772.7	778.0	791.2
67.5°	669.9	656.7	659.3	667.2	672.5
70°	572.3	556.5	556.5	556.5	559.1
72.5°	482.6	458.9	456.3	458.9	458.9
75°	385.0	369.2	363.9	363.9	361.3
77.5°	308.6	287.5	284.8	279.6	274.3
80°	224.2	205.7	200.4	197.8	195.2
82.5°	155.6	139.8	134.5	129.2	121.3
85°	92.3	81.8	71.2	63.3	55.4
87.5°	34.3	31.6	26.4	23.7	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)