

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: P296229

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296229
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-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6884.0 lumens
Efficiency: N/A
Efficacy: 110.8 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

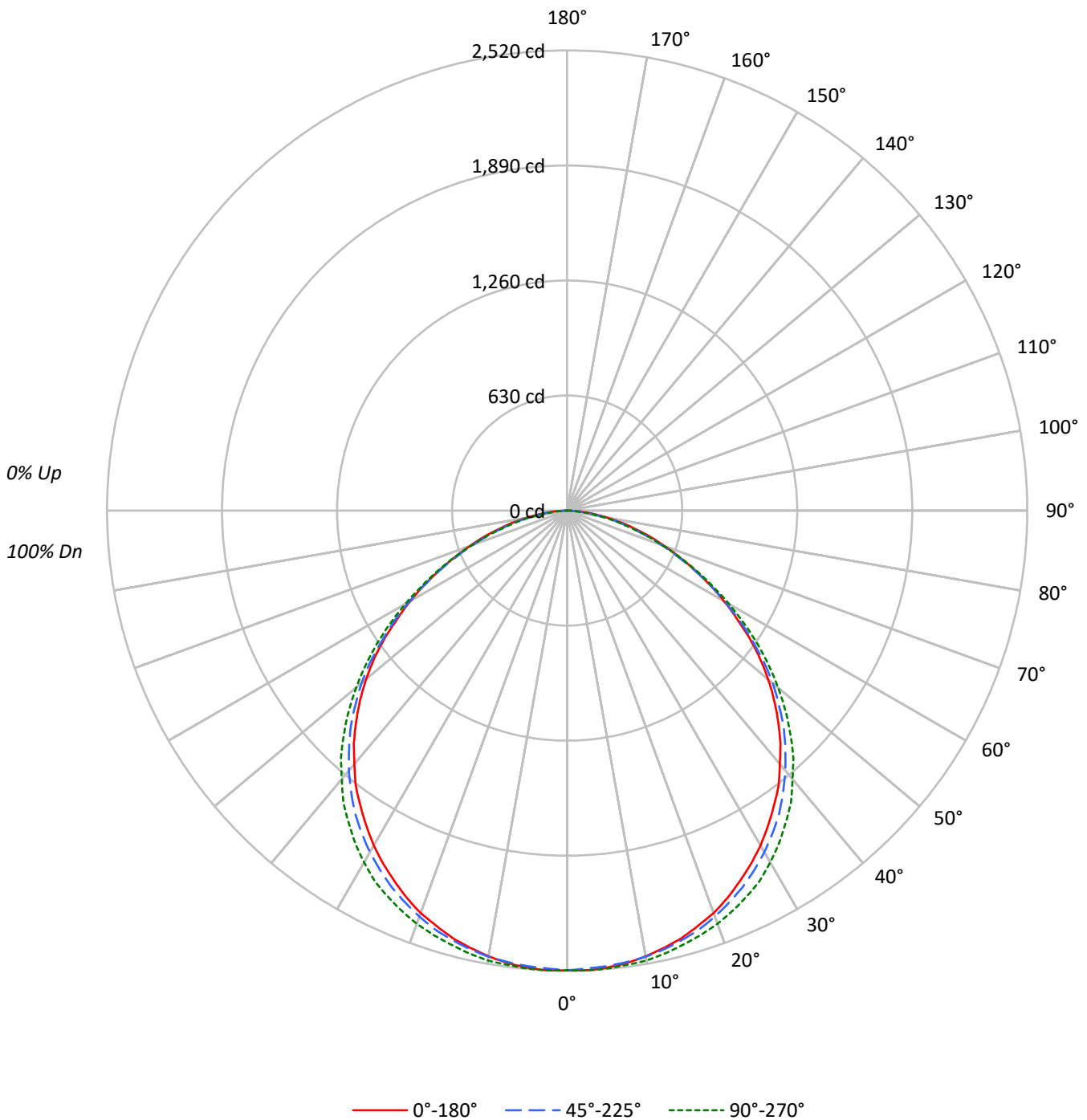
Input Watts (W): 62.124
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3387	3387	3387
5°	3393	3383	3400
10°	3386	3390	3418
15°	3376	3390	3427
20°	3358	3388	3448
25°	3323	3377	3458
30°	3290	3355	3457
35°	3243	3324	3427
40°	3183	3266	3371
45°	3111	3190	3290
50°	3006	3078	3160
55°	2861	2898	2983
60°	2671	2685	2755
65°	2453	2436	2494
70°	2229	2168	2178
75°	1982	1874	1860
80°	1720	1538	1498
85°	1411	1088	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.7	3.5
10°-20°	688.3	10.0
20°-30°	1050.6	15.3
30°-40°	1266.6	18.4
40°-50°	1291.6	18.8
50°-60°	1105.4	16.1
60°-70°	761.4	11.1
70°-80°	390.3	5.7
80°-90°	90.9	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°	1977.7	28.7
0°-40°	3244.3	47.1
0°-60°	5641.3	81.9
0°-90°	6884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2518	2518	2518	2518	2518	
5°	2512	2507	2504	2512	2518	239
15°	2424	2421	2434	2452	2460	683
25°	2238	2246	2275	2314	2330	1032
35°	1974	1982	2024	2068	2087	1235
45°	1635	1637	1677	1718	1729	1260
55°	1220	1212	1235	1261	1272	1088
65°	770	752	765	770	784	766
75°	381	366	360	360	358	411
85°	91	81	70	63	55	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2517.5	2517.5	2517.5	2517.5	2517.5
2.5°	2520.1	2514.9	2509.7	2514.9	2520.1
5°	2512.3	2507.1	2504.4	2512.3	2517.5
7.5°	2499.2	2494.0	2494.0	2504.4	2509.7
10°	2478.3	2475.7	2480.9	2491.4	2501.8
12.5°	2452.2	2452.2	2460.1	2473.1	2483.6
15°	2423.5	2420.9	2433.9	2452.2	2460.1
17.5°	2384.3	2386.9	2405.2	2426.1	2436.5
20°	2345.1	2347.8	2366.0	2394.8	2407.8
22.5°	2295.5	2300.7	2321.6	2358.2	2371.3
25°	2238.1	2245.9	2274.6	2313.8	2329.5
27.5°	2180.6	2188.5	2219.8	2264.2	2285.1
30°	2117.9	2128.4	2159.7	2206.7	2225.0
32.5°	2047.4	2055.3	2094.4	2141.4	2159.7
35°	1974.3	1982.1	2023.9	2068.3	2086.6
37.5°	1901.2	1901.2	1943.0	1995.2	2013.5
40°	1812.4	1815.0	1859.4	1909.0	1919.5
42.5°	1728.8	1728.8	1768.0	1815.0	1833.3
45°	1634.8	1637.4	1676.6	1718.4	1728.8
47.5°	1538.2	1538.2	1572.1	1611.3	1621.8
50°	1436.3	1431.1	1470.3	1501.6	1509.5
52.5°	1331.9	1324.0	1355.4	1381.5	1391.9
55°	1219.6	1211.7	1235.2	1261.4	1271.8
57.5°	1102.1	1091.6	1117.7	1141.2	1146.5
60°	992.4	976.7	997.6	1010.7	1023.7
62.5°	882.7	864.4	880.1	887.9	898.4
65°	770.4	752.1	765.2	770.4	783.5
67.5°	663.3	650.3	652.9	660.7	665.9
70°	566.7	551.0	551.0	551.0	553.6
72.5°	477.9	454.4	451.8	454.4	454.4
75°	381.3	365.6	360.4	360.4	357.8
77.5°	305.5	284.7	282.0	276.8	271.6
80°	222.0	203.7	198.5	195.9	193.3
82.5°	154.1	138.4	133.2	128.0	120.1
85°	91.4	81.0	70.5	62.7	54.8
87.5°	33.9	31.3	26.1	23.5	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)