

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: P296366

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296366  
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-L92765-W2A1-U-3500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5720.0 lumens  
Efficiency: N/A  
Efficacy: 93.9 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

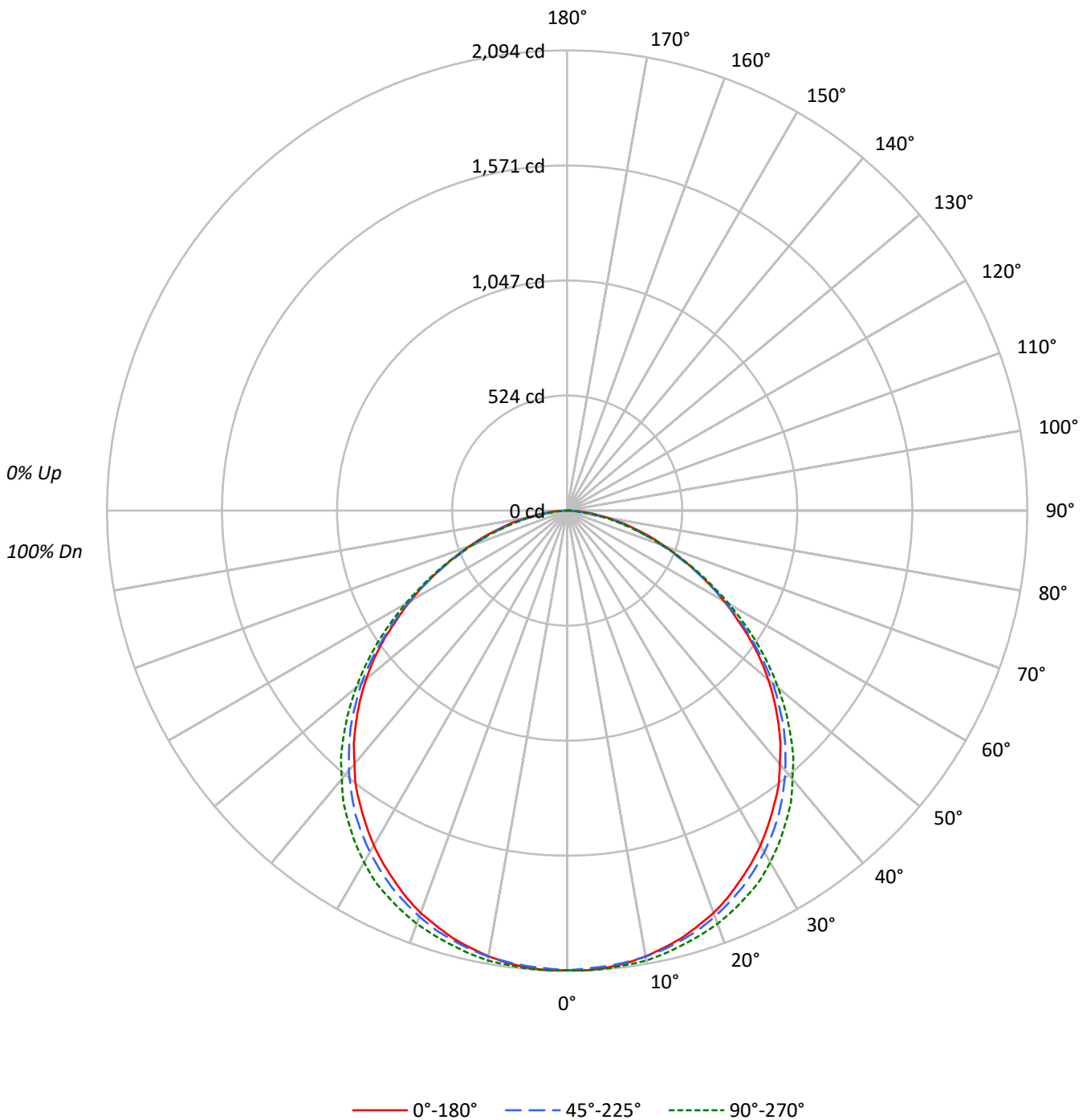
Input Watts (W): 60.915  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2814	2814	2814
5°	2819	2811	2825
10°	2814	2816	2840
15°	2805	2817	2847
20°	2790	2815	2865
25°	2761	2806	2874
30°	2734	2788	2872
35°	2695	2762	2848
40°	2645	2714	2801
45°	2585	2651	2733
50°	2498	2557	2625
55°	2377	2408	2479
60°	2219	2231	2289
65°	2038	2024	2073
70°	1852	1801	1810
75°	1647	1557	1546
80°	1429	1278	1244
85°	1172	905	704



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.4	3.5
10°-20°	571.9	10.0
20°-30°	873.0	15.3
30°-40°	1052.4	18.4
40°-50°	1073.2	18.8
50°-60°	918.5	16.1
60°-70°	632.7	11.1
70°-80°	324.4	5.7
80°-90°	75.5	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°	1643.3	28.7
0°-40°	2695.7	47.1
0°-60°	4687.5	81.9
0°-90°	5720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5720.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2092	2092	2092	2092	2092	
5°	2088	2083	2081	2088	2092	198
15°	2014	2012	2022	2038	2044	568
25°	1860	1866	1890	1923	1936	858
35°	1640	1647	1682	1719	1734	1026
45°	1358	1361	1393	1428	1436	1047
55°	1013	1007	1026	1048	1057	904
65°	640	625	636	640	651	636
75°	317	304	300	300	297	342
85°	76	67	59	52	46	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2091.8	2091.8	2091.8	2091.8	2091.8
2.5°	2094.0	2089.7	2085.3	2089.7	2094.0
5°	2087.5	2083.1	2081.0	2087.5	2091.8
7.5°	2076.6	2072.3	2072.3	2081.0	2085.3
10°	2059.3	2057.1	2061.4	2070.1	2078.8
12.5°	2037.6	2037.6	2044.1	2054.9	2063.6
15°	2013.7	2011.5	2022.4	2037.6	2044.1
17.5°	1981.2	1983.3	1998.5	2015.9	2024.6
20°	1948.6	1950.8	1966.0	1989.8	2000.7
22.5°	1907.4	1911.7	1929.1	1959.5	1970.3
25°	1859.6	1866.2	1890.0	1922.6	1935.6
27.5°	1811.9	1818.4	1844.5	1881.3	1898.7
30°	1759.8	1768.5	1794.5	1833.6	1848.8
32.5°	1701.2	1707.7	1740.3	1779.4	1794.5
35°	1640.5	1647.0	1681.7	1718.6	1733.8
37.5°	1579.7	1579.7	1614.4	1657.8	1673.0
40°	1505.9	1508.1	1545.0	1586.2	1594.9
42.5°	1436.5	1436.5	1469.1	1508.1	1523.3
45°	1358.4	1360.6	1393.1	1427.8	1436.5
47.5°	1278.1	1278.1	1306.3	1338.9	1347.5
50°	1193.5	1189.1	1221.7	1247.7	1254.2
52.5°	1106.7	1100.2	1126.2	1147.9	1156.6
55°	1013.4	1006.9	1026.4	1048.1	1056.8
57.5°	915.7	907.0	928.7	948.3	952.6
60°	824.6	811.6	828.9	839.8	850.6
62.5°	733.4	718.3	731.3	737.8	746.5
65°	640.1	624.9	635.8	640.1	651.0
67.5°	551.2	540.3	542.5	549.0	553.3
70°	470.9	457.9	457.9	457.9	460.0
72.5°	397.1	377.6	375.4	377.6	377.6
75°	316.8	303.8	299.5	299.5	297.3
77.5°	253.9	236.5	234.4	230.0	225.7
80°	184.4	169.3	164.9	162.7	160.6
82.5°	128.0	115.0	110.7	106.3	99.8
85°	75.9	67.3	58.6	52.1	45.6
87.5°	28.2	26.0	21.7	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)