

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: P296213

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296213  
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-LD5-67-RDP-UNV-L82765-W2A1-U-5700K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5789.0 lumens  
Efficiency: N/A  
Efficacy: 115.7 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

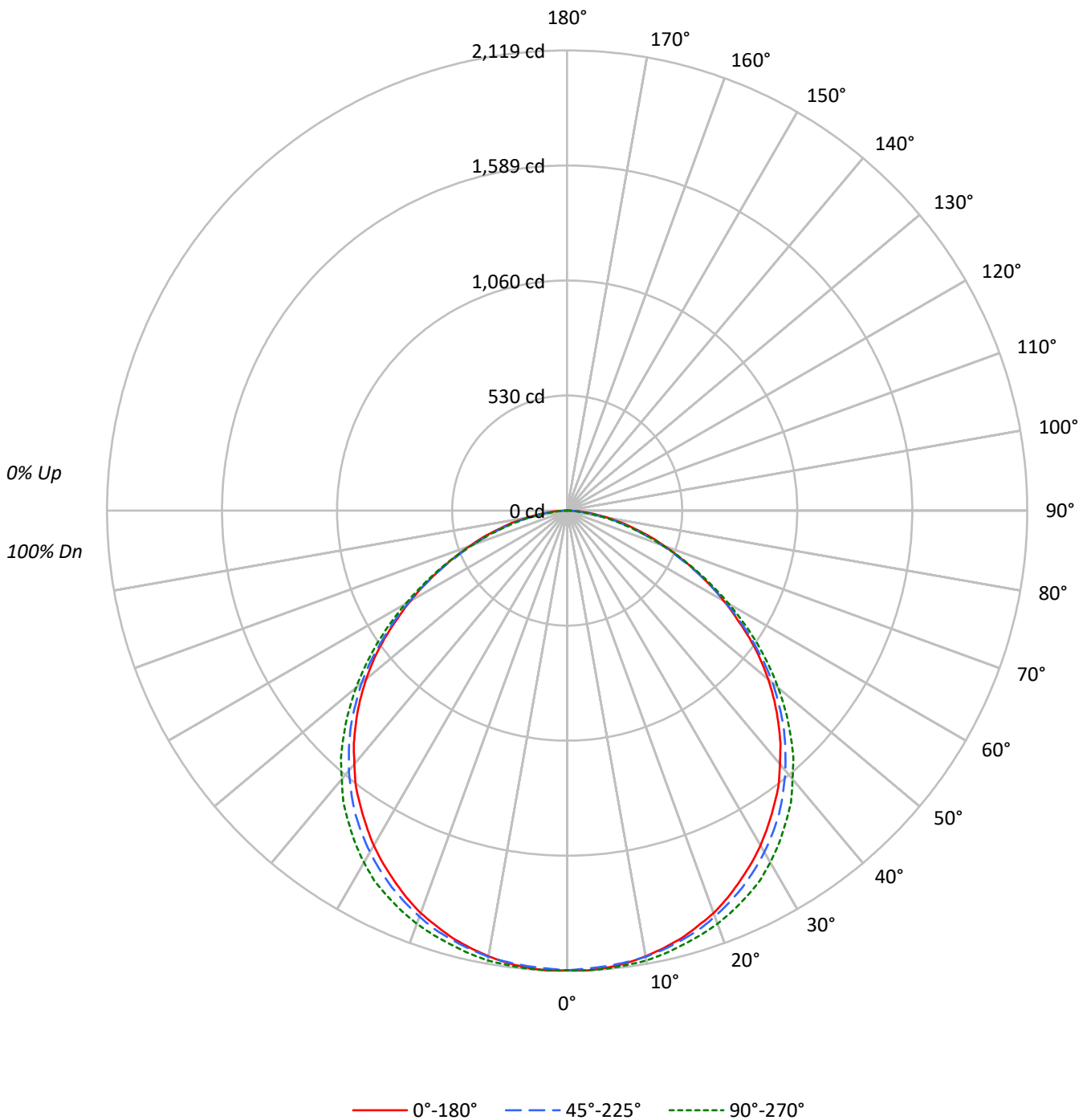
Input Watts (W): 50.034  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2849	2849	2849
5°	2853	2845	2859
10°	2847	2850	2874
15°	2839	2851	2882
20°	2824	2849	2899
25°	2794	2840	2908
30°	2767	2822	2907
35°	2727	2796	2882
40°	2677	2746	2835
45°	2616	2683	2766
50°	2528	2588	2657
55°	2406	2437	2509
60°	2246	2257	2317
65°	2063	2049	2097
70°	1875	1823	1832
75°	1667	1576	1564
80°	1447	1293	1259
85°	1187	915	712



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.8	3.5
10°-20°	578.8	10.0
20°-30°	883.5	15.3
30°-40°	1065.1	18.4
40°-50°	1086.2	18.8
50°-60°	929.6	16.1
60°-70°	640.3	11.1
70°-80°	328.3	5.7
80°-90°	76.4	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°	1663.1	28.7
0°-40°	2728.2	47.1
0°-60°	4744.0	81.9
0°-90°	5789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5789.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2117	2117	2117	2117	2117	
5°	2113	2108	2106	2113	2117	201
15°	2038	2036	2047	2062	2069	575
25°	1882	1889	1913	1946	1959	868
35°	1660	1667	1702	1739	1755	1039
45°	1375	1377	1410	1445	1454	1059
55°	1026	1019	1039	1061	1070	915
65°	648	632	644	648	659	644
75°	321	308	303	303	301	346
85°	77	68	59	53	46	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2117.1	2117.1	2117.1	2117.1	2117.1
2.5°	2119.3	2114.9	2110.5	2114.9	2119.3
5°	2112.7	2108.3	2106.1	2112.7	2117.1
7.5°	2101.7	2097.3	2097.3	2106.1	2110.5
10°	2084.1	2081.9	2086.3	2095.1	2103.9
12.5°	2062.2	2062.2	2068.7	2079.7	2088.5
15°	2038.0	2035.8	2046.8	2062.2	2068.7
17.5°	2005.1	2007.3	2022.6	2040.2	2049.0
20°	1972.1	1974.3	1989.7	2013.8	2024.8
22.5°	1930.4	1934.8	1952.4	1983.1	1994.1
25°	1882.1	1888.7	1912.8	1945.8	1958.9
27.5°	1833.8	1840.3	1866.7	1904.0	1921.6
30°	1781.1	1789.8	1816.2	1855.7	1871.1
32.5°	1721.8	1728.3	1761.3	1800.8	1816.2
35°	1660.3	1666.9	1702.0	1739.3	1754.7
37.5°	1598.8	1598.8	1633.9	1677.8	1693.2
40°	1524.1	1526.3	1563.6	1605.4	1614.1
42.5°	1453.8	1453.8	1486.8	1526.3	1541.7
45°	1374.8	1377.0	1409.9	1445.0	1453.8
47.5°	1293.5	1293.5	1322.1	1355.0	1363.8
50°	1207.9	1203.5	1236.4	1262.8	1269.4
52.5°	1120.0	1113.4	1139.8	1161.7	1170.5
55°	1025.6	1019.0	1038.8	1060.7	1069.5
57.5°	926.8	918.0	939.9	959.7	964.1
60°	834.5	821.3	838.9	849.9	860.9
62.5°	742.3	726.9	740.1	746.7	755.5
65°	647.9	632.5	643.5	647.9	658.8
67.5°	557.8	546.8	549.0	555.6	560.0
70°	476.6	463.4	463.4	463.4	465.6
72.5°	401.9	382.1	379.9	382.1	382.1
75°	320.6	307.5	303.1	303.1	300.9
77.5°	256.9	239.4	237.2	232.8	228.4
80°	186.7	171.3	166.9	164.7	162.5
82.5°	129.6	116.4	112.0	107.6	101.0
85°	76.9	68.1	59.3	52.7	46.1
87.5°	28.5	26.4	22.0	19.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)