

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: P296214

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296214
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-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: 5805.0 lumens
Efficiency: N/A
Efficacy: 114.3 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

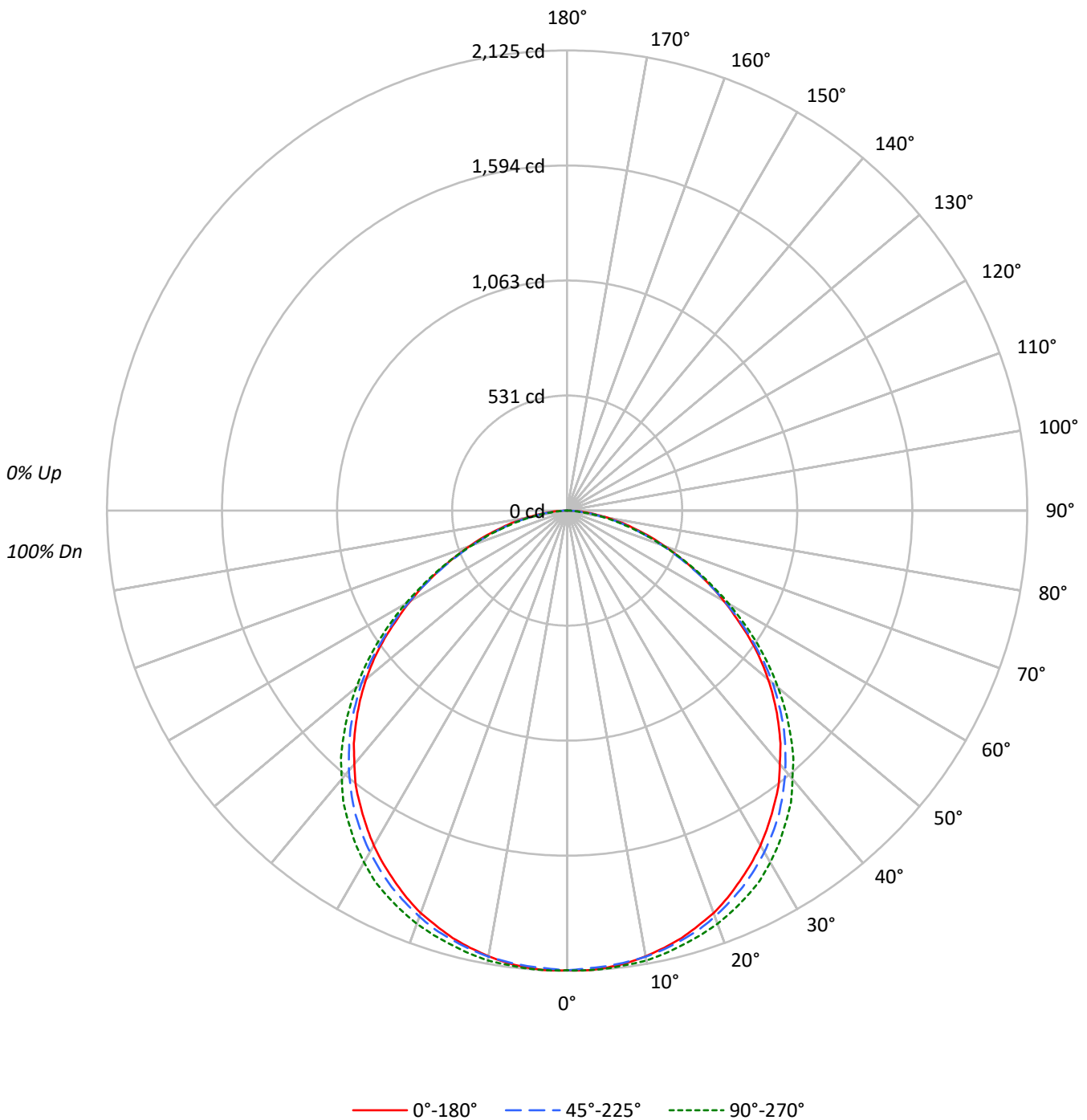
Input Watts (W): 50.778
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296214

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P296214

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-6500K

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°	2856	2856	2856
5°	2861	2852	2867
10°	2855	2858	2882
15°	2847	2859	2890
20°	2832	2857	2907
25°	2802	2848	2916
30°	2775	2829	2915
35°	2735	2803	2890
40°	2684	2754	2843
45°	2623	2690	2774
50°	2535	2595	2664
55°	2412	2443	2516
60°	2252	2264	2323
65°	2068	2054	2103
70°	1880	1828	1837
75°	1671	1580	1568
80°	1450	1297	1263
85°	1190	919	713



TEST NUMBER: P296214

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	3.5
10°-20°	580.4	10.0
20°-30°	886.0	15.3
30°-40°	1068.1	18.4
40°-50°	1089.2	18.8
50°-60°	932.2	16.1
60°-70°	642.1	11.1
70°-80°	329.2	5.7
80°-90°	76.6	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°	1667.7	28.7
0°-40°	2735.8	47.1
0°-60°	4757.1	81.9
0°-90°	5805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2123	2123	2123	2123	2123	
5°	2118	2114	2112	2118	2123	201
15°	2044	2041	2052	2068	2074	576
25°	1887	1894	1918	1951	1964	870
35°	1665	1672	1707	1744	1760	1042
45°	1379	1381	1414	1449	1458	1062
55°	1028	1022	1042	1064	1072	917
65°	650	634	645	650	661	646
75°	322	308	304	304	302	347
85°	77	68	60	53	46	90
90°	0	0	0	0	0	



TEST NUMBER: P296214

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2122.9	2122.9	2122.9	2122.9	2122.9
2.5°	2125.1	2120.7	2116.3	2120.7	2125.1
5°	2118.5	2114.1	2111.9	2118.5	2122.9
7.5°	2107.5	2103.1	2103.1	2111.9	2116.3
10°	2089.9	2087.7	2092.1	2100.9	2109.7
12.5°	2067.9	2067.9	2074.5	2085.5	2094.3
15°	2043.6	2041.4	2052.4	2067.9	2074.5
17.5°	2010.6	2012.8	2028.2	2045.8	2054.6
20°	1977.6	1979.8	1995.2	2019.4	2030.4
22.5°	1935.7	1940.1	1957.7	1988.6	1999.6
25°	1887.3	1893.9	1918.1	1951.1	1964.4
27.5°	1838.8	1845.4	1871.9	1909.3	1926.9
30°	1786.0	1794.8	1821.2	1860.9	1876.3
32.5°	1726.5	1733.1	1766.2	1805.8	1821.2
35°	1664.9	1671.5	1706.7	1744.1	1759.5
37.5°	1603.2	1603.2	1638.4	1682.5	1697.9
40°	1528.3	1530.5	1568.0	1609.8	1618.6
42.5°	1457.8	1457.8	1490.9	1530.5	1545.9
45°	1378.6	1380.8	1413.8	1449.0	1457.8
47.5°	1297.1	1297.1	1325.7	1358.8	1367.6
50°	1211.2	1206.8	1239.8	1266.3	1272.9
52.5°	1123.1	1116.5	1142.9	1165.0	1173.8
55°	1028.4	1021.8	1041.6	1063.7	1072.5
57.5°	929.3	920.5	942.5	962.4	966.8
60°	836.8	823.6	841.2	852.2	863.3
62.5°	744.3	728.9	742.1	748.7	757.6
65°	649.6	634.2	645.2	649.6	660.7
67.5°	559.4	548.3	550.5	557.2	561.6
70°	477.9	464.7	464.7	464.7	466.9
72.5°	403.0	383.2	381.0	383.2	383.2
75°	321.5	308.3	303.9	303.9	301.7
77.5°	257.7	240.0	237.8	233.4	229.0
80°	187.2	171.8	167.4	165.2	163.0
82.5°	129.9	116.7	112.3	107.9	101.3
85°	77.1	68.3	59.5	52.9	46.2
87.5°	28.6	26.4	22.0	19.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)