

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: P296211

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296211
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-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: 5718.0 lumens
Efficiency: N/A
Efficacy: 114.9 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

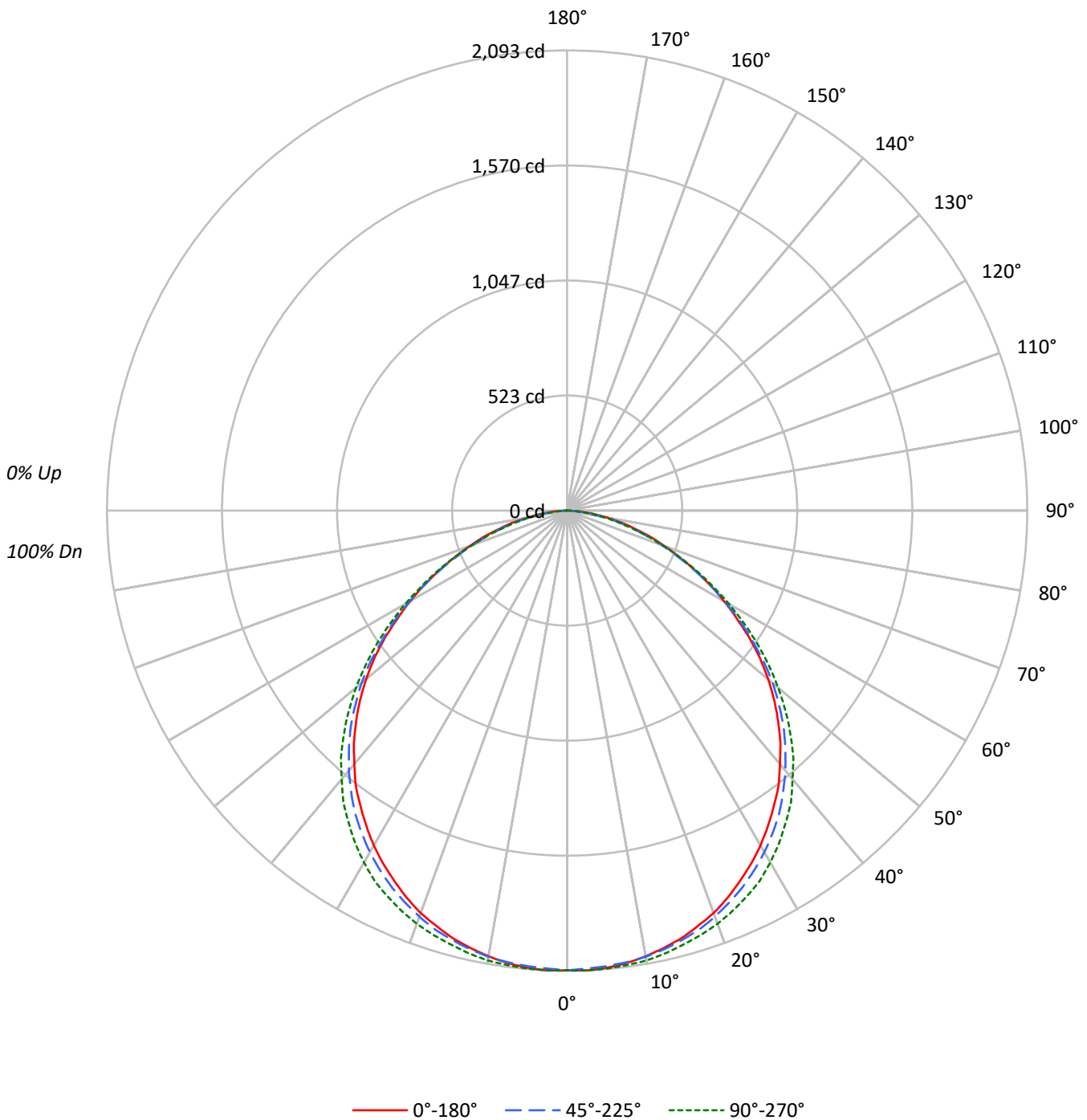
Input Watts (W): 49.755
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2814	2814	2814
5°	2818	2810	2824
10°	2813	2815	2839
15°	2804	2816	2846
20°	2789	2814	2864
25°	2760	2805	2873
30°	2733	2787	2871
35°	2694	2761	2847
40°	2644	2713	2800
45°	2584	2650	2732
50°	2497	2556	2624
55°	2376	2407	2478
60°	2218	2230	2288
65°	2037	2024	2072
70°	1852	1801	1809
75°	1646	1556	1545
80°	1429	1278	1244
85°	1172	905	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.3	3.5
10°-20°	571.7	10.0
20°-30°	872.7	15.3
30°-40°	1052.1	18.4
40°-50°	1072.9	18.8
50°-60°	918.2	16.1
60°-70°	632.5	11.1
70°-80°	324.2	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°	1642.7	28.7
0°-40°	2694.8	47.1
0°-60°	4685.8	81.9
0°-90°	5718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2091	2091	2091	2091	2091	
5°	2087	2082	2080	2087	2091	198
15°	2013	2011	2022	2037	2043	568
25°	1859	1866	1889	1922	1935	857
35°	1640	1646	1681	1718	1733	1026
45°	1358	1360	1393	1427	1436	1046
55°	1013	1006	1026	1048	1056	904
65°	640	625	636	640	651	636
75°	317	304	299	299	297	341
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°	2091.1	2091.1	2091.1	2091.1	2091.1
2.5°	2093.3	2088.9	2084.6	2088.9	2093.3
5°	2086.8	2082.4	2080.2	2086.8	2091.1
7.5°	2075.9	2071.6	2071.6	2080.2	2084.6
10°	2058.6	2056.4	2060.7	2069.4	2078.1
12.5°	2036.9	2036.9	2043.4	2054.2	2062.9
15°	2013.0	2010.8	2021.7	2036.9	2043.4
17.5°	1980.5	1982.6	1997.8	2015.2	2023.8
20°	1947.9	1950.1	1965.3	1989.1	2000.0
22.5°	1906.7	1911.1	1928.4	1958.8	1969.6
25°	1859.0	1865.5	1889.4	1921.9	1934.9
27.5°	1811.3	1817.8	1843.8	1880.7	1898.0
30°	1759.2	1767.9	1793.9	1833.0	1848.1
32.5°	1700.6	1707.1	1739.7	1778.7	1793.9
35°	1639.9	1646.4	1681.1	1718.0	1733.2
37.5°	1579.2	1579.2	1613.9	1657.3	1672.4
40°	1505.4	1507.6	1544.5	1585.7	1594.4
42.5°	1436.0	1436.0	1468.5	1507.6	1522.8
45°	1357.9	1360.1	1392.6	1427.3	1436.0
47.5°	1277.6	1277.6	1305.8	1338.4	1347.1
50°	1193.1	1188.7	1221.3	1247.3	1253.8
52.5°	1106.3	1099.8	1125.8	1147.5	1156.2
55°	1013.0	1006.5	1026.0	1047.7	1056.4
57.5°	915.4	906.7	928.4	947.9	952.3
60°	824.3	811.3	828.6	839.5	850.3
62.5°	733.2	718.0	731.0	737.5	746.2
65°	639.9	624.7	635.6	639.9	650.8
67.5°	551.0	540.1	542.3	548.8	553.1
70°	470.7	457.7	457.7	457.7	459.9
72.5°	397.0	377.4	375.3	377.4	377.4
75°	316.7	303.7	299.3	299.3	297.2
77.5°	253.8	236.4	234.3	229.9	225.6
80°	184.4	169.2	164.9	162.7	160.5
82.5°	128.0	115.0	110.6	106.3	99.8
85°	75.9	67.2	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)