

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: P296203

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296203
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-LD5-60-RDP-UNV-L82765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5194.0 lumens
Efficiency: N/A
Efficacy: 116.8 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

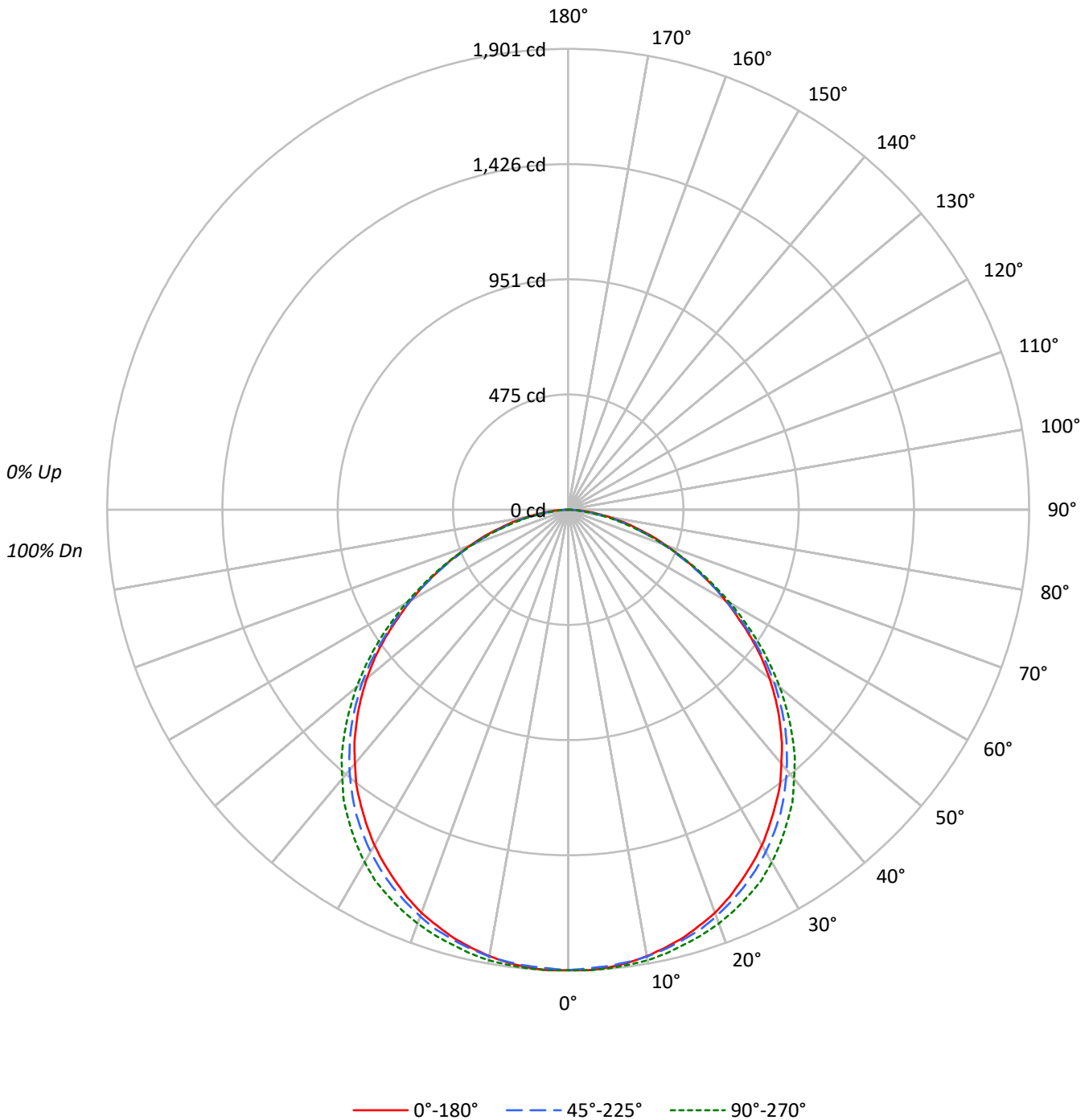
Input Watts (W): 44.454
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2556	2556	2556
5°	2560	2552	2566
10°	2555	2557	2579
15°	2547	2558	2585
20°	2533	2556	2601
25°	2507	2548	2609
30°	2483	2532	2608
35°	2447	2508	2586
40°	2402	2464	2544
45°	2347	2407	2482
50°	2268	2322	2384
55°	2159	2186	2251
60°	2015	2025	2079
65°	1851	1838	1882
70°	1682	1636	1643
75°	1496	1413	1403
80°	1298	1161	1130
85°	1065	821	639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	3.5
10°-20°	519.3	10.0
20°-30°	792.7	15.3
30°-40°	955.7	18.4
40°-50°	974.5	18.8
50°-60°	834.0	16.1
60°-70°	574.5	11.1
70°-80°	294.5	5.7
80°-90°	68.5	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°	1492.2	28.7
0°-40°	2447.8	47.1
0°-60°	4256.4	81.9
0°-90°	5194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1896	1892	1890	1896	1900	180
15°	1828	1827	1836	1850	1856	516
25°	1689	1694	1716	1746	1758	779
35°	1490	1496	1527	1561	1574	932
45°	1234	1235	1265	1296	1304	950
55°	920	914	932	952	960	821
65°	581	568	577	581	591	578
75°	288	276	272	272	270	310
85°	69	61	53	47	41	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1899.5	1899.5	1899.5	1899.5	1899.5
2.5°	1901.4	1897.5	1893.6	1897.5	1901.4
5°	1895.5	1891.6	1889.6	1895.5	1899.5
7.5°	1885.7	1881.7	1881.7	1889.6	1893.6
10°	1869.9	1867.9	1871.9	1879.8	1887.6
12.5°	1850.2	1850.2	1856.1	1866.0	1873.9
15°	1828.5	1826.6	1836.4	1850.2	1856.1
17.5°	1799.0	1800.9	1814.7	1830.5	1838.4
20°	1769.4	1771.4	1785.2	1806.9	1816.7
22.5°	1732.0	1735.9	1751.7	1779.3	1789.1
25°	1688.6	1694.5	1716.2	1745.8	1757.6
27.5°	1645.3	1651.2	1674.8	1708.3	1724.1
30°	1598.0	1605.9	1629.5	1665.0	1678.8
32.5°	1544.8	1550.7	1580.3	1615.7	1629.5
35°	1489.6	1495.5	1527.1	1560.6	1574.3
37.5°	1434.5	1434.5	1466.0	1505.4	1519.2
40°	1367.5	1369.4	1402.9	1440.4	1448.2
42.5°	1304.4	1304.4	1334.0	1369.4	1383.2
45°	1233.5	1235.4	1265.0	1296.5	1304.4
47.5°	1160.6	1160.6	1186.2	1215.7	1223.6
50°	1083.7	1079.8	1109.3	1133.0	1138.9
52.5°	1004.9	999.0	1022.6	1042.3	1050.2
55°	920.2	914.3	932.0	951.7	959.6
57.5°	831.5	823.6	843.3	861.1	865.0
60°	748.8	736.9	752.7	762.5	772.4
62.5°	666.0	652.2	664.0	669.9	677.8
65°	581.3	567.5	577.3	581.3	591.1
67.5°	500.5	490.6	492.6	498.5	502.5
70°	427.6	415.8	415.8	415.8	417.7
72.5°	360.6	342.8	340.9	342.8	342.8
75°	287.7	275.9	271.9	271.9	269.9
77.5°	230.5	214.8	212.8	208.9	204.9
80°	167.5	153.7	149.8	147.8	145.8
82.5°	116.3	104.4	100.5	96.5	90.6
85°	69.0	61.1	53.2	47.3	41.4
87.5°	25.6	23.6	19.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)