

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: P296224

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296224
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-L82765-W2A1-U-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6135.0 lumens
Efficiency: N/A
Efficacy: 101.0 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

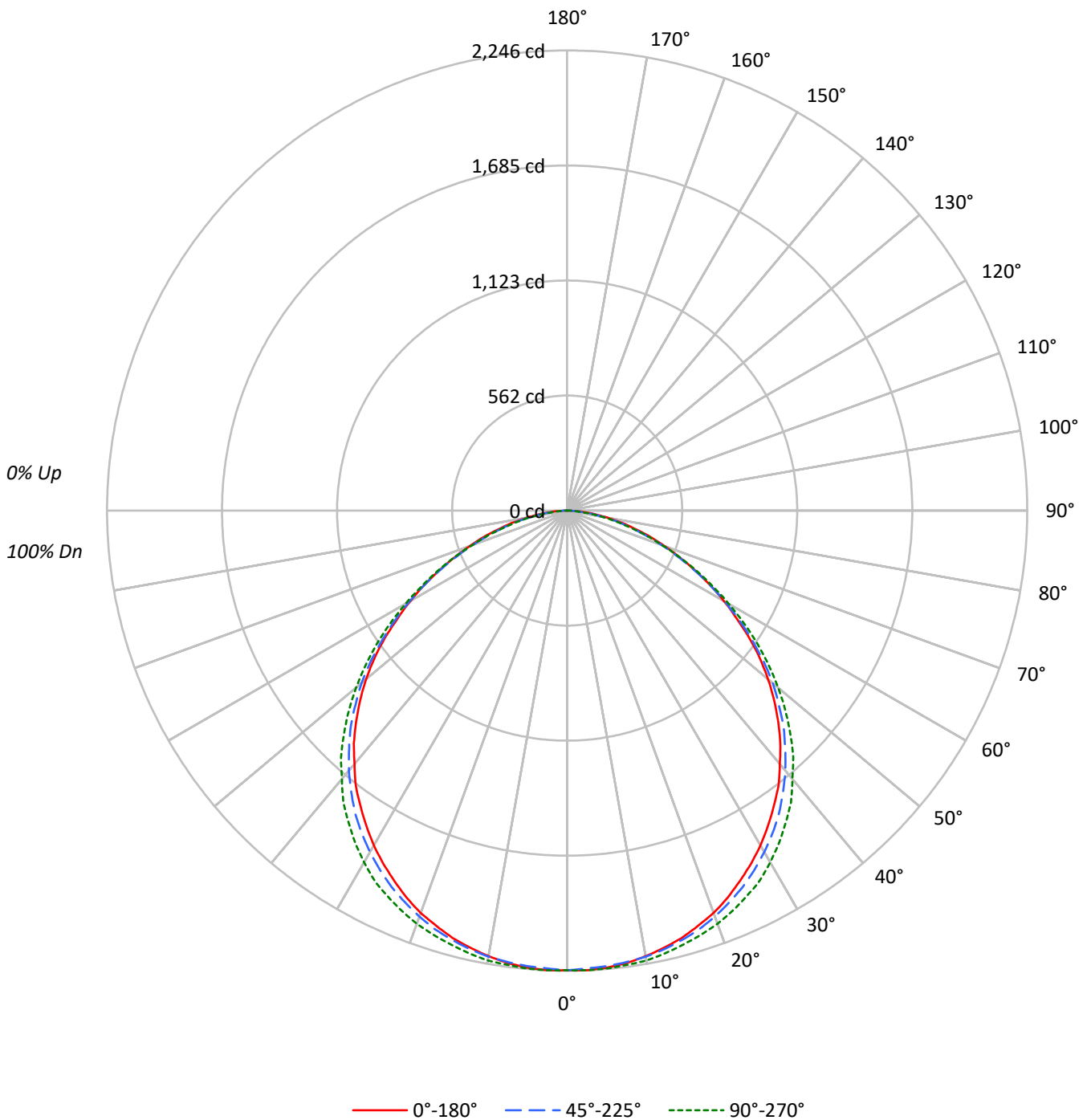
Input Watts (W): 60.729
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3019	3019	3019
5°	3024	3015	3030
10°	3018	3021	3046
15°	3009	3021	3054
20°	2993	3019	3072
25°	2961	3009	3082
30°	2932	2990	3081
35°	2890	2963	3054
40°	2837	2911	3005
45°	2772	2843	2932
50°	2680	2743	2816
55°	2550	2582	2659
60°	2380	2393	2455
65°	2186	2171	2223
70°	1987	1932	1941
75°	1766	1670	1658
80°	1533	1371	1334
85°	1258	969	755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.8	3.5
10°-20°	613.4	10.0
20°-30°	936.3	15.3
30°-40°	1128.8	18.4
40°-50°	1151.1	18.8
50°-60°	985.1	16.1
60°-70°	678.6	11.1
70°-80°	347.9	5.7
80°-90°	81.0	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°	1762.5	28.7
0°-40°	2891.3	47.1
0°-60°	5027.5	81.9
0°-90°	6135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2244	2244	2244	2244	2244	
5°	2239	2234	2232	2239	2244	213
15°	2160	2158	2169	2185	2192	609
25°	1995	2002	2027	2062	2076	920
35°	1760	1766	1804	1843	1860	1101
45°	1457	1459	1494	1531	1541	1122
55°	1087	1080	1101	1124	1133	970
65°	687	670	682	687	698	682
75°	340	326	321	321	319	366
85°	82	72	63	56	49	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2243.6	2243.6	2243.6	2243.6	2243.6
2.5°	2245.9	2241.3	2236.6	2241.3	2245.9
5°	2238.9	2234.3	2232.0	2238.9	2243.6
7.5°	2227.3	2222.6	2222.6	2232.0	2236.6
10°	2208.7	2206.4	2211.0	2220.3	2229.6
12.5°	2185.4	2185.4	2192.4	2204.0	2213.3
15°	2159.8	2157.5	2169.1	2185.4	2192.4
17.5°	2124.9	2127.2	2143.5	2162.1	2171.4
20°	2090.0	2092.3	2108.6	2134.2	2145.8
22.5°	2045.8	2050.4	2069.0	2101.6	2113.3
25°	1994.6	2001.5	2027.1	2062.1	2076.0
27.5°	1943.4	1950.3	1978.3	2017.8	2036.5
30°	1887.5	1896.8	1924.7	1966.6	1982.9
32.5°	1824.7	1831.6	1866.6	1908.5	1924.7
35°	1759.5	1766.5	1803.7	1843.3	1859.6
37.5°	1694.3	1694.3	1731.6	1778.1	1794.4
40°	1615.2	1617.5	1657.1	1701.3	1710.6
42.5°	1540.7	1540.7	1575.6	1617.5	1633.8
45°	1456.9	1459.3	1494.2	1531.4	1540.7
47.5°	1370.8	1370.8	1401.1	1436.0	1445.3
50°	1280.1	1275.4	1310.3	1338.2	1345.2
52.5°	1187.0	1180.0	1207.9	1231.2	1240.5
55°	1086.9	1079.9	1100.8	1124.1	1133.4
57.5°	982.2	972.8	996.1	1017.1	1021.7
60°	884.4	870.4	889.1	900.7	912.3
62.5°	786.7	770.4	784.3	791.3	800.6
65°	686.6	670.3	681.9	686.6	698.2
67.5°	591.2	579.5	581.8	588.8	593.5
70°	505.0	491.1	491.1	491.1	493.4
72.5°	425.9	405.0	402.6	405.0	405.0
75°	339.8	325.8	321.2	321.2	318.9
77.5°	272.3	253.7	251.4	246.7	242.0
80°	197.8	181.5	176.9	174.6	172.2
82.5°	137.3	123.4	118.7	114.0	107.1
85°	81.5	72.1	62.8	55.9	48.9
87.5°	30.3	27.9	23.3	20.9	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)