

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: P295944

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-UNV-L82765-W2A1-U-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7399.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

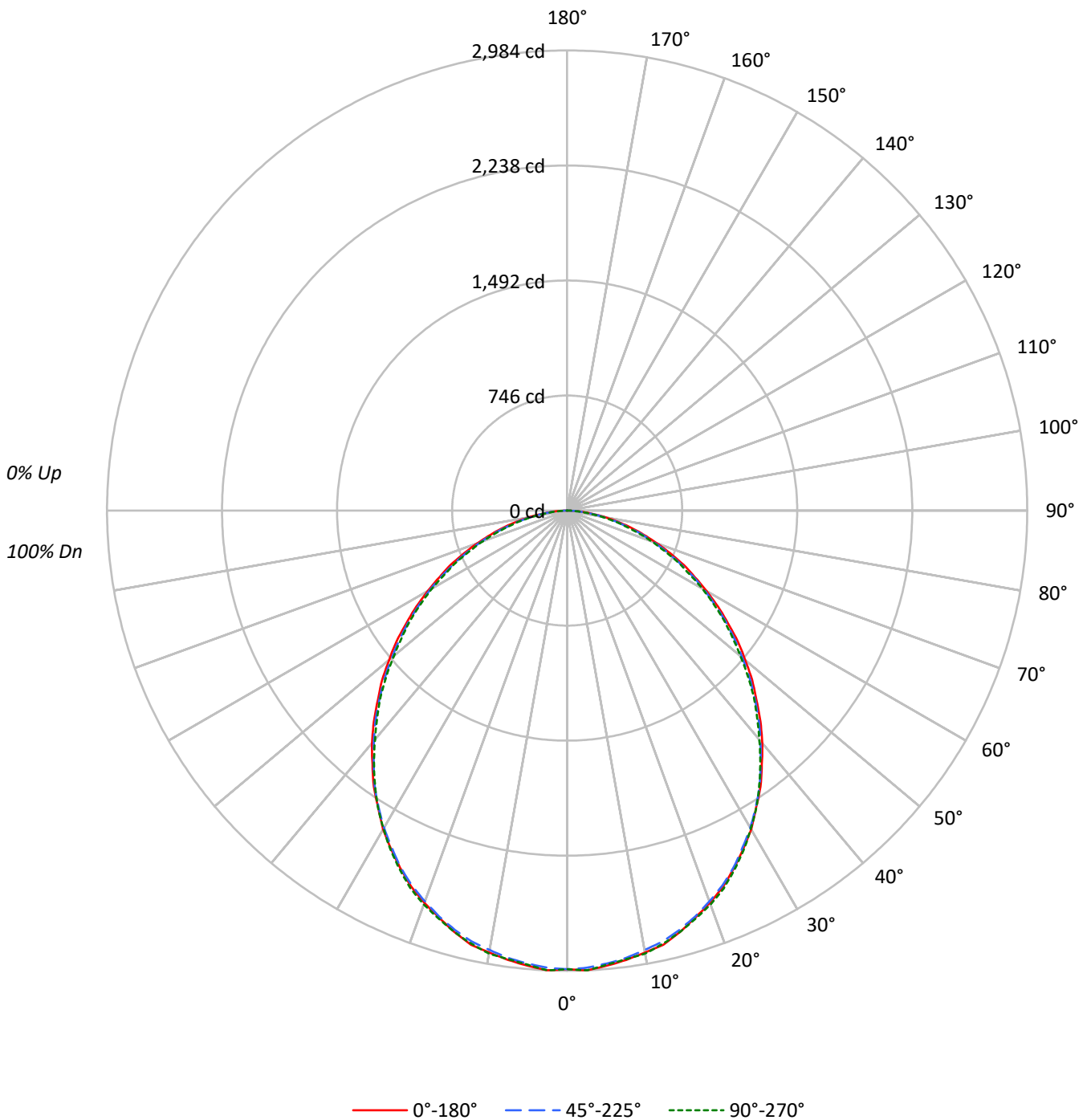
Input Watts (W): 60.729
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4002	4002	4002
5°	4001	3982	3991
10°	3975	3953	3985
15°	3940	3920	3940
20°	3876	3862	3893
25°	3799	3792	3813
30°	3709	3690	3701
35°	3591	3576	3568
40°	3459	3425	3404
45°	3302	3270	3257
50°	3153	3103	3068
55°	2985	2940	2912
60°	2807	2756	2724
65°	2652	2553	2531
70°	2432	2338	2291
75°	2234	2097	2010
80°	1960	1831	1720
85°	1584	1474	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	3.8
10°-20°	795.6	10.8
20°-30°	1176.8	15.9
30°-40°	1358.1	18.4
40°-50°	1326.5	17.9
50°-60°	1120.1	15.1
60°-70°	797.8	10.8
70°-80°	432.0	5.8
80°-90°	111.5	1.5
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°	2253.0	30.4
0°-40°	3611.1	48.8
0°-60°	6057.7	81.9
0°-90°	7399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2974	2974	2974	2974	2974	
5°	2962	2962	2948	2955	2955	281
15°	2829	2817	2814	2826	2829	797
25°	2559	2544	2554	2564	2568	1178
35°	2186	2170	2177	2170	2172	1365
45°	1735	1721	1719	1712	1712	1342
55°	1272	1256	1253	1241	1241	1141
65°	833	816	802	792	795	821
75°	430	415	403	394	387	455
85°	103	100	96	84	81	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2974.2	2974.2	2974.2	2974.2	2974.2
2.5°	2983.7	2971.8	2967.0	2969.4	2983.7
5°	2962.3	2962.3	2947.9	2955.1	2955.1
7.5°	2938.4	2940.8	2926.4	2938.4	2933.6
10°	2909.7	2902.6	2893.0	2912.1	2916.9
12.5°	2883.5	2866.8	2862.0	2873.9	2876.3
15°	2828.6	2816.6	2814.3	2826.2	2828.6
17.5°	2766.5	2768.9	2759.4	2776.1	2773.7
20°	2706.8	2702.1	2697.3	2716.4	2718.8
22.5°	2640.0	2625.7	2630.5	2647.2	2651.9
25°	2558.9	2544.5	2554.1	2563.6	2568.4
27.5°	2472.9	2465.8	2463.4	2475.3	2480.1
30°	2387.0	2375.1	2375.1	2389.4	2382.2
32.5°	2282.0	2272.4	2277.2	2282.0	2284.3
35°	2186.5	2169.8	2176.9	2169.8	2172.2
37.5°	2074.3	2062.4	2060.0	2057.6	2057.6
40°	1969.3	1959.7	1950.2	1950.2	1938.2
42.5°	1854.7	1842.8	1838.0	1830.8	1823.7
45°	1735.3	1721.0	1718.6	1711.5	1711.5
47.5°	1627.9	1606.4	1604.1	1589.7	1589.7
50°	1506.2	1491.9	1482.3	1472.8	1465.6
52.5°	1396.4	1382.1	1367.7	1358.2	1351.0
55°	1272.3	1255.6	1253.2	1241.2	1241.2
57.5°	1160.1	1145.8	1136.2	1121.9	1124.3
60°	1043.1	1028.8	1024.0	1012.1	1012.1
62.5°	933.3	921.4	914.2	902.3	892.7
65°	833.1	816.3	802.0	792.5	794.9
67.5°	723.3	704.2	697.0	687.5	680.3
70°	618.2	606.3	594.4	582.4	582.4
72.5°	520.4	508.4	501.3	486.9	482.2
75°	429.7	415.3	403.4	393.9	386.7
77.5°	339.0	324.6	317.5	305.5	305.5
80°	253.0	243.5	236.3	231.5	222.0
82.5°	174.3	169.5	162.3	155.2	148.0
85°	102.6	100.3	95.5	83.5	81.2
87.5°	40.6	40.6	35.8	33.4	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)