

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: P295946

Luminaire Tested: **24RLN-LD5-80-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295946
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-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7875.0 lumens
Efficiency: N/A
Efficacy: 129.1 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

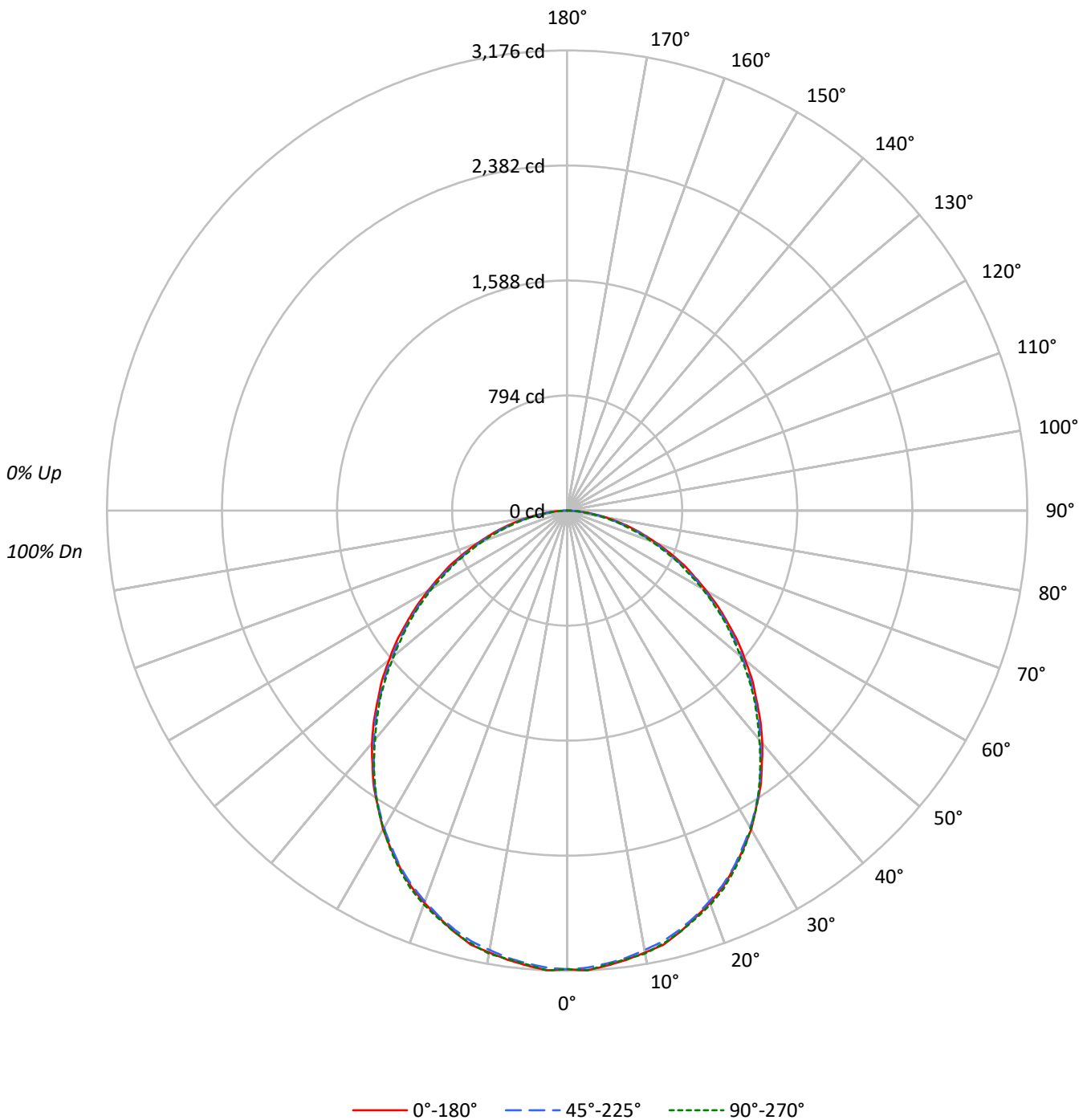
Input Watts (W): 61.008
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4259	4259	4259
5°	4258	4238	4248
10°	4231	4207	4242
15°	4194	4172	4194
20°	4125	4111	4143
25°	4043	4036	4058
30°	3947	3927	3939
35°	3822	3806	3797
40°	3681	3646	3623
45°	3514	3481	3466
50°	3356	3302	3265
55°	3176	3129	3099
60°	2988	2933	2899
65°	2823	2718	2693
70°	2589	2489	2439
75°	2377	2232	2140
80°	2087	1949	1831
85°	1686	1568	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.7	3.8
10°-20°	846.7	10.8
20°-30°	1252.5	15.9
30°-40°	1445.5	18.4
40°-50°	1411.8	17.9
50°-60°	1192.2	15.1
60°-70°	849.2	10.8
70°-80°	459.8	5.8
80°-90°	118.6	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°	2397.9	30.4
0°-40°	3843.4	48.8
0°-60°	6447.4	81.9
0°-90°	7875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3166	3166	3166	3166	3166	
5°	3153	3153	3138	3145	3145	299
15°	3011	2998	2995	3008	3011	848
25°	2724	2708	2718	2729	2734	1254
35°	2327	2309	2317	2309	2312	1452
45°	1847	1832	1829	1822	1822	1428
55°	1354	1336	1334	1321	1321	1214
65°	887	869	854	844	846	874
75°	457	442	429	419	412	484
85°	109	107	102	89	86	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3165.5	3165.5	3165.5	3165.5	3165.5
2.5°	3175.7	3163.0	3157.9	3160.4	3175.7
5°	3152.8	3152.8	3137.6	3145.2	3145.2
7.5°	3127.4	3130.0	3114.7	3127.4	3122.3
10°	3096.9	3089.3	3079.1	3099.5	3104.6
12.5°	3069.0	3051.2	3046.1	3058.8	3061.4
15°	3010.6	2997.8	2995.3	3008.0	3010.6
17.5°	2944.5	2947.0	2936.9	2954.7	2952.1
20°	2881.0	2875.9	2870.8	2891.1	2893.7
22.5°	2809.8	2794.6	2799.7	2817.5	2822.6
25°	2723.5	2708.2	2718.4	2728.6	2733.6
27.5°	2632.0	2624.4	2621.8	2634.6	2639.6
30°	2540.6	2527.8	2527.8	2543.1	2535.5
32.5°	2428.8	2418.6	2423.7	2428.8	2431.3
35°	2327.1	2309.4	2317.0	2309.4	2311.9
37.5°	2207.7	2195.0	2192.5	2190.0	2190.0
40°	2096.0	2085.8	2075.6	2075.6	2062.9
42.5°	1974.0	1961.3	1956.2	1948.6	1941.0
45°	1847.0	1831.7	1829.2	1821.6	1821.6
47.5°	1732.7	1709.8	1707.2	1692.0	1692.0
50°	1603.1	1587.8	1577.7	1567.5	1559.9
52.5°	1486.2	1471.0	1455.7	1445.6	1438.0
55°	1354.1	1336.3	1333.8	1321.1	1321.1
57.5°	1234.7	1219.5	1209.3	1194.1	1196.6
60°	1110.2	1095.0	1089.9	1077.2	1077.2
62.5°	993.4	980.7	973.0	960.3	950.2
65°	886.7	868.9	853.6	843.5	846.0
67.5°	769.8	749.5	741.8	731.7	724.1
70°	658.0	645.3	632.6	619.9	619.9
72.5°	553.8	541.1	533.5	518.3	513.2
75°	457.3	442.1	429.4	419.2	411.6
77.5°	360.8	345.5	337.9	325.2	325.2
80°	269.3	259.1	251.5	246.4	236.3
82.5°	185.5	180.4	172.8	165.1	157.5
85°	109.2	106.7	101.6	88.9	86.4
87.5°	43.2	43.2	38.1	35.6	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)