

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: P295855

Luminaire Tested: **24RLN-LD5-74-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295855
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-LD5-74-UNV-L83050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7806.0 lumens
Efficiency: N/A
Efficacy: 138.5 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

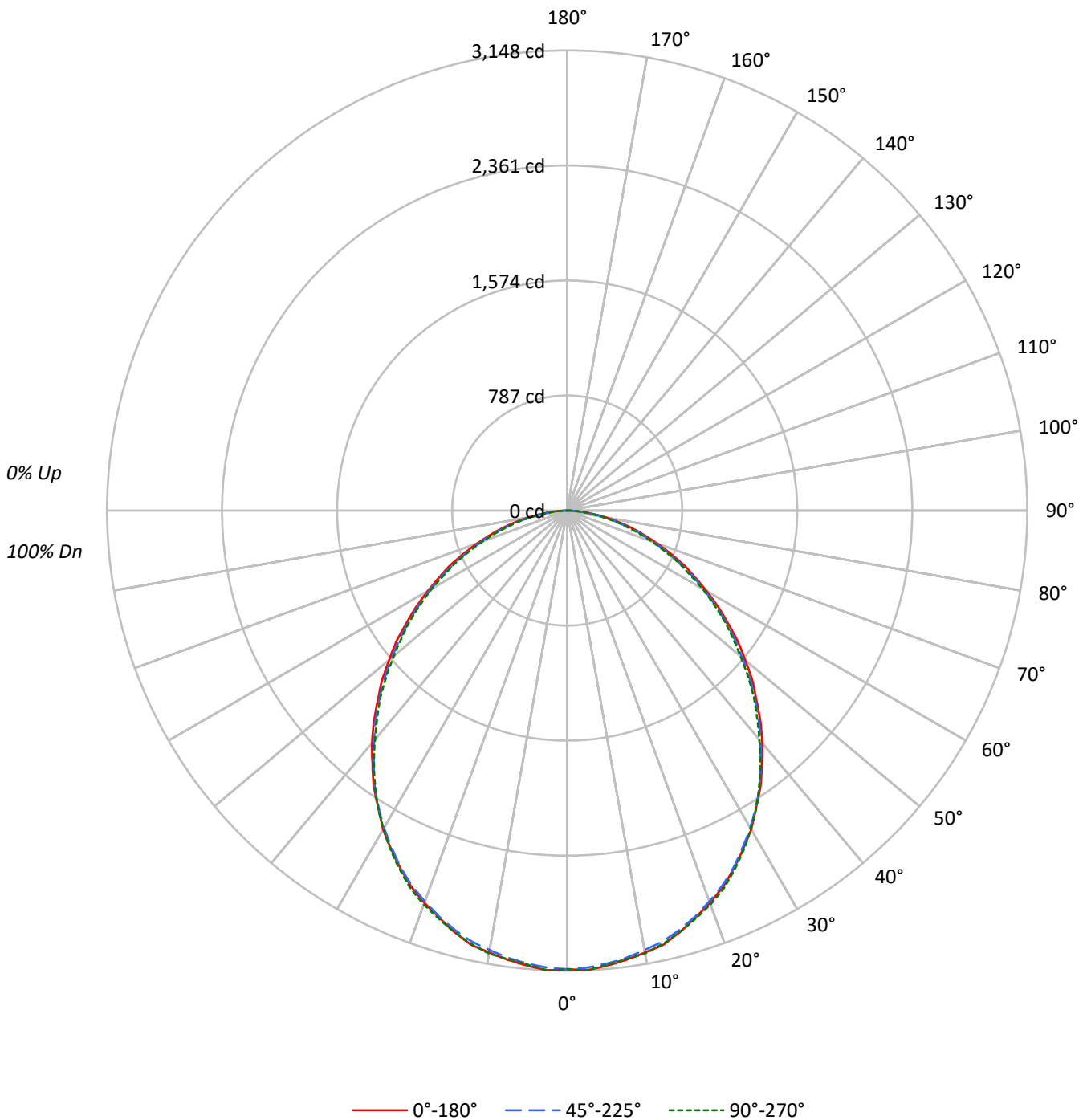
Input Watts (W): 56.358
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4222	4222	4222
5°	4221	4201	4211
10°	4194	4170	4204
15°	4157	4136	4157
20°	4089	4075	4107
25°	4008	4000	4023
30°	3913	3893	3905
35°	3789	3772	3764
40°	3649	3614	3592
45°	3484	3450	3436
50°	3326	3274	3237
55°	3149	3101	3072
60°	2961	2907	2873
65°	2798	2694	2670
70°	2566	2467	2417
75°	2357	2213	2121
80°	2068	1932	1815
85°	1672	1555	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.1	3.8
10°-20°	839.3	10.8
20°-30°	1241.5	15.9
30°-40°	1432.8	18.4
40°-50°	1399.4	17.9
50°-60°	1181.7	15.1
60°-70°	841.7	10.8
70°-80°	455.8	5.8
80°-90°	117.6	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°	2376.9	30.4
0°-40°	3809.7	48.8
0°-60°	6390.9	81.9
0°-90°	7806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3138	3138	3138	3138	3138	
5°	3125	3125	3110	3118	3118	297
15°	2984	2972	2969	2982	2984	841
25°	2700	2684	2695	2705	2710	1243
35°	2307	2289	2297	2289	2292	1440
45°	1831	1816	1813	1806	1806	1416
55°	1342	1325	1322	1310	1310	1203
65°	879	861	846	836	839	866
75°	453	438	426	416	408	480
85°	108	106	101	88	86	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3137.8	3137.8	3137.8	3137.8	3137.8
2.5°	3147.9	3135.3	3130.2	3132.8	3147.9
5°	3125.2	3125.2	3110.1	3117.6	3117.6
7.5°	3100.0	3102.5	3087.4	3100.0	3095.0
10°	3069.8	3062.2	3052.2	3072.3	3077.4
12.5°	3042.1	3024.5	3019.4	3032.0	3034.5
15°	2984.2	2971.6	2969.1	2981.7	2984.2
17.5°	2918.7	2921.2	2911.1	2928.8	2926.3
20°	2855.7	2850.7	2845.7	2865.8	2868.3
22.5°	2785.2	2770.1	2775.2	2792.8	2797.8
25°	2699.6	2684.5	2694.6	2704.6	2709.7
27.5°	2608.9	2601.4	2598.9	2611.5	2616.5
30°	2518.3	2505.7	2505.7	2520.8	2513.3
32.5°	2407.5	2397.4	2402.4	2407.5	2410.0
35°	2306.8	2289.1	2296.7	2289.1	2291.6
37.5°	2188.4	2175.8	2173.3	2170.8	2170.8
40°	2077.6	2067.5	2057.4	2057.4	2044.9
42.5°	1956.7	1944.1	1939.1	1931.5	1924.0
45°	1830.8	1815.7	1813.2	1805.6	1805.6
47.5°	1717.5	1694.8	1692.3	1677.2	1677.2
50°	1589.0	1573.9	1563.9	1553.8	1546.2
52.5°	1473.2	1458.1	1443.0	1432.9	1425.4
55°	1342.2	1324.6	1322.1	1309.5	1309.5
57.5°	1223.9	1208.8	1198.7	1183.6	1186.1
60°	1100.5	1085.4	1080.3	1067.8	1067.8
62.5°	984.7	972.1	964.5	951.9	941.8
65°	878.9	861.3	846.1	836.1	838.6
67.5°	763.0	742.9	735.3	725.3	717.7
70°	652.2	639.6	627.1	614.5	614.5
72.5°	549.0	536.4	528.8	513.7	508.7
75°	453.3	438.2	425.6	415.5	408.0
77.5°	357.6	342.5	334.9	322.3	322.3
80°	266.9	256.9	249.3	244.3	234.2
82.5°	183.8	178.8	171.2	163.7	156.1
85°	108.3	105.8	100.7	88.1	85.6
87.5°	42.8	42.8	37.8	35.3	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)