

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: P229376

Luminaire Tested: **24ALNG-LD5-74-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36066)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ALNG-LD5-74-UNV-L835-CD1-U
Description: METALUX 2X4 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (252)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7524.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

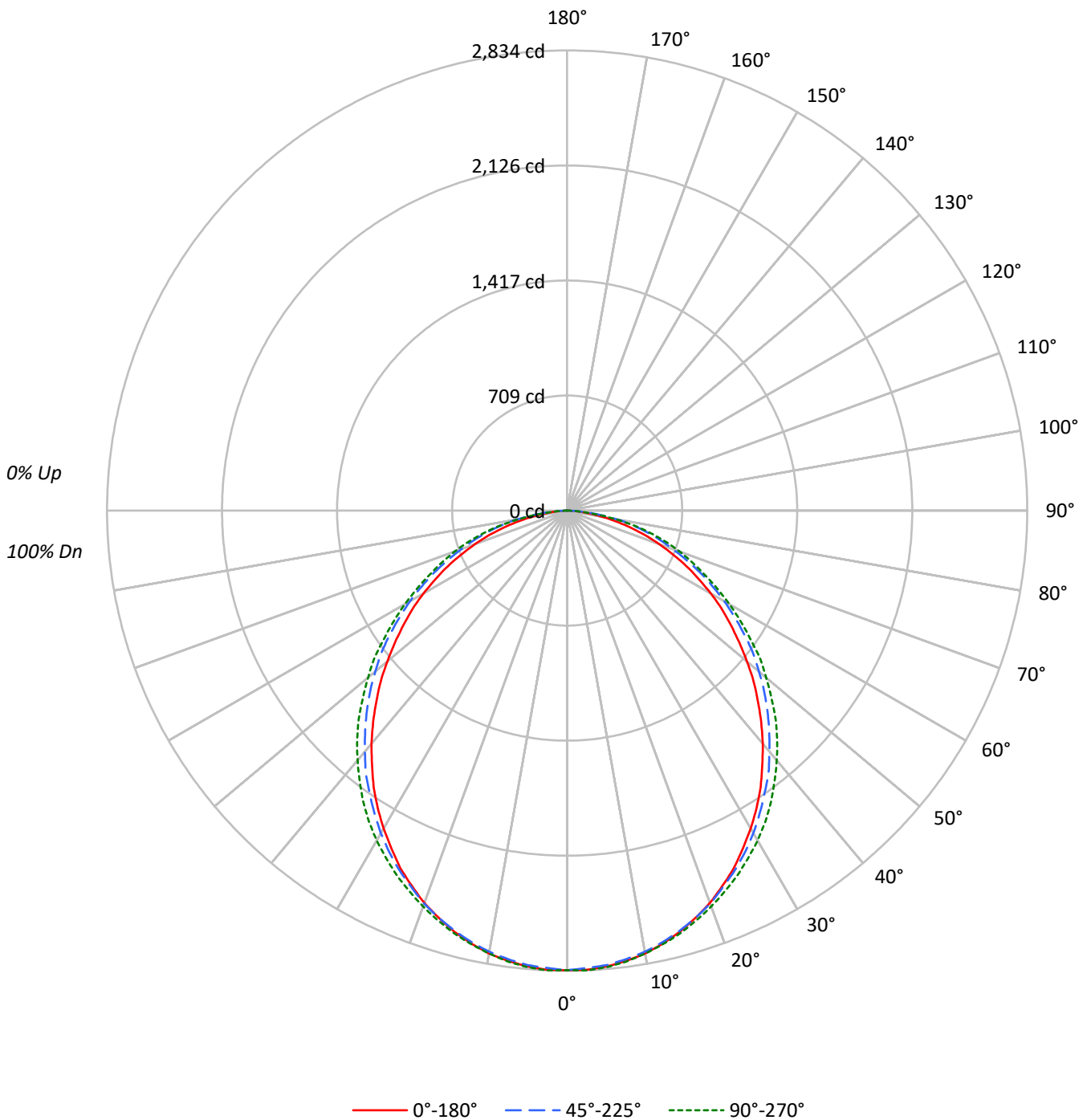
Input Watts (W): 60.94
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	66	62	59					59			
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4335	4335	4335
5°	4332	4320	4339
10°	4308	4292	4308
15°	4256	4247	4273
20°	4192	4199	4229
25°	4106	4131	4191
30°	3999	4058	4150
35°	3884	3966	4095
40°	3749	3874	4016
45°	3601	3777	3935
50°	3444	3673	3812
55°	3286	3559	3676
60°	3131	3424	3533
65°	2940	3273	3386
70°	2699	3101	3297
75°	2370	2975	3135
80°	1913	2778	2631
85°	1357	1833	1466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.2	3.6
10°-20°	757.3	10.1
20°-30°	1128.4	15.0
30°-40°	1331.2	17.7
40°-50°	1344.0	17.9
50°-60°	1180.4	15.7
60°-70°	880.3	11.7
70°-80°	512.8	6.8
80°-90°	122.4	1.6
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°	2152.9	28.6
0°-40°	3484.1	46.3
0°-60°	6008.5	79.9
0°-90°	7524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7524.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2830	2830	2830	2830	2830	
5°	2818	2816	2810	2818	2822	267
15°	2684	2682	2678	2691	2695	756
25°	2430	2432	2444	2472	2480	1117
35°	2077	2090	2121	2171	2190	1297
45°	1662	1687	1744	1796	1817	1283
55°	1231	1268	1333	1374	1377	1103
65°	811	845	903	930	934	801
75°	400	448	503	528	530	427
85°	77	113	104	88	83	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2830.3	2830.3	2830.3	2830.3	2830.3
2.5°	2830.3	2828.2	2819.9	2828.2	2834.5
5°	2817.8	2815.7	2809.5	2817.8	2822.0
7.5°	2796.9	2794.9	2786.5	2799.0	2801.1
10°	2769.8	2765.7	2759.4	2767.7	2769.8
12.5°	2730.2	2728.1	2721.9	2732.3	2734.4
15°	2684.3	2682.2	2678.1	2690.6	2694.7
17.5°	2630.1	2632.2	2630.1	2644.7	2646.8
20°	2571.7	2573.8	2575.9	2592.5	2594.6
22.5°	2500.8	2502.9	2509.1	2532.1	2538.3
25°	2429.9	2431.9	2444.5	2471.6	2479.9
27.5°	2344.3	2352.7	2371.5	2404.8	2413.2
30°	2260.9	2269.3	2294.3	2333.9	2346.4
32.5°	2171.2	2179.6	2208.8	2252.6	2271.3
35°	2077.4	2089.9	2121.2	2171.2	2190.0
37.5°	1973.1	1996.0	2037.7	2085.7	2098.2
40°	1875.1	1891.7	1937.6	1996.0	2008.5
42.5°	1768.7	1791.6	1841.7	1900.1	1914.7
45°	1662.3	1687.3	1743.7	1795.8	1816.7
47.5°	1558.0	1585.1	1645.6	1699.9	1706.1
50°	1445.4	1478.8	1541.3	1593.5	1599.7
52.5°	1336.9	1376.6	1443.3	1485.0	1499.6
55°	1230.6	1268.1	1332.8	1374.5	1376.6
57.5°	1130.5	1161.7	1224.3	1259.8	1266.0
60°	1022.0	1053.3	1117.9	1147.1	1153.4
62.5°	913.5	946.9	1009.5	1038.7	1042.9
65°	811.3	844.7	903.1	930.2	934.4
67.5°	702.9	744.6	794.7	830.1	834.3
70°	602.8	644.5	692.5	727.9	736.3
72.5°	502.7	550.6	598.6	625.7	636.1
75°	400.5	448.4	502.7	527.7	529.8
77.5°	306.6	352.5	408.8	423.4	417.1
80°	216.9	267.0	314.9	312.9	298.3
82.5°	137.7	185.6	204.4	191.9	183.5
85°	77.2	112.6	104.3	87.6	83.4
87.5°	31.3	33.4	25.0	16.7	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)