

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: P219072

Luminaire Tested: **24GR-LD5-42-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-F1-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3973.8 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

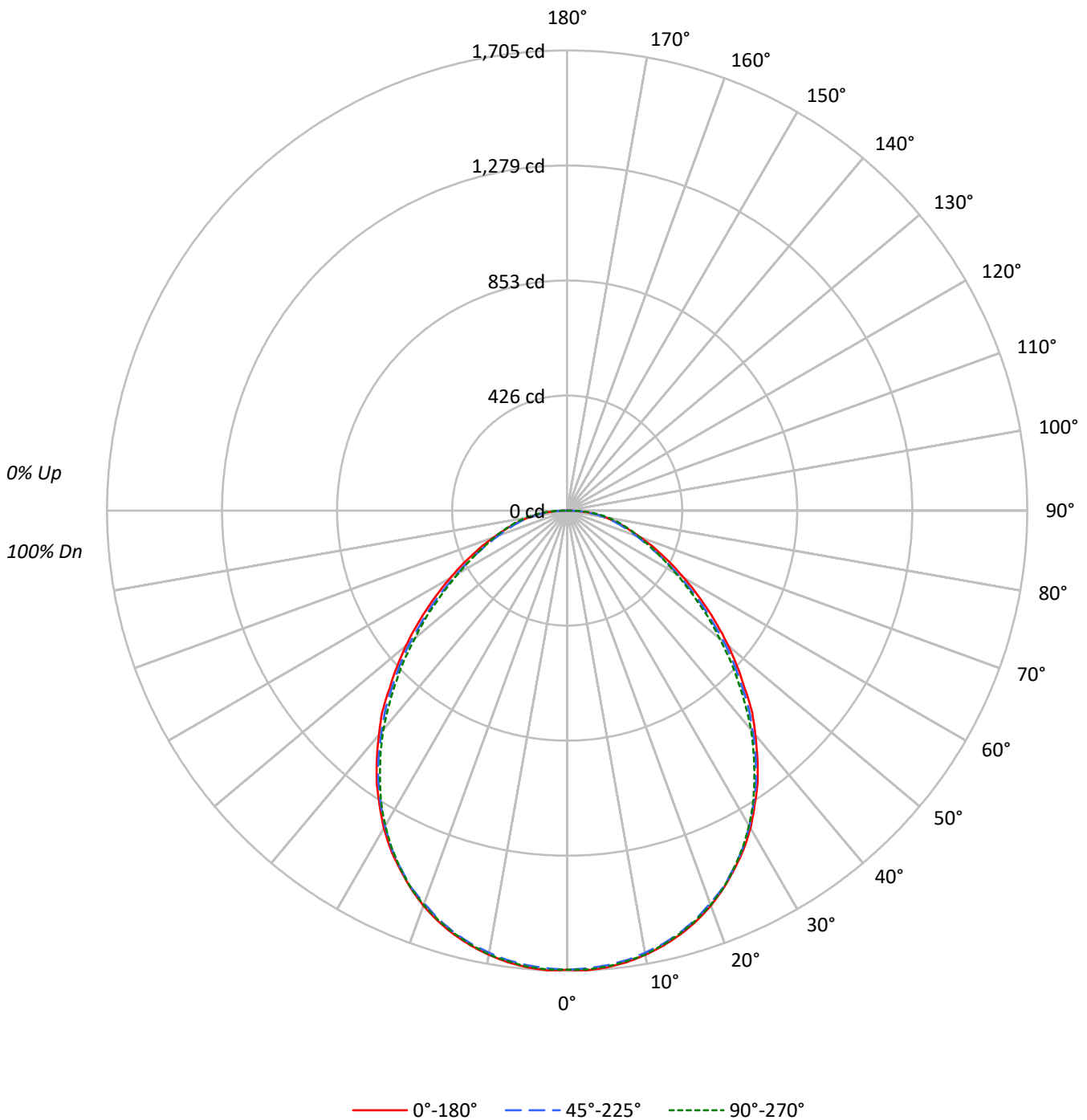
Input Watts (W): 34.617
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2606	2606	2606
5°	2612	2600	2607
10°	2599	2588	2597
15°	2577	2566	2571
20°	2539	2524	2534
25°	2478	2469	2472
30°	2402	2388	2384
35°	2300	2282	2261
40°	2168	2140	2119
45°	2014	1979	1942
50°	1857	1809	1755
55°	1688	1629	1579
60°	1529	1449	1423
65°	1399	1306	1314
70°	1287	1213	1270
75°	1251	1186	1295
80°	1253	1222	1378
85°	1378	1304	1518



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.7	4.0
10°-20°	456.2	11.5
20°-30°	672.3	16.9
30°-40°	760.2	19.1
40°-50°	705.2	17.7
50°-60°	547.8	13.8
60°-70°	367.4	9.2
70°-80°	220.2	5.5
80°-90°	83.8	2.1
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°	1289.2	32.4
0°-40°	2049.5	51.6
0°-60°	3302.5	83.1
0°-90°	3973.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3973.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1699	1694	1691	1690	1696	161
15°	1625	1619	1618	1615	1622	458
25°	1466	1464	1461	1459	1462	675
35°	1230	1225	1220	1213	1209	767
45°	930	926	914	899	896	719
55°	632	625	610	595	591	568
65°	386	374	360	359	363	385
75°	211	204	200	210	219	223
85°	78	74	74	87	86	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1701.4	1701.4	1701.4	1701.4	1701.4
2.5°	1705.1	1699.5	1697.1	1695.9	1701.4
5°	1699.0	1694.1	1691.0	1689.8	1695.9
7.5°	1687.9	1682.4	1680.6	1678.1	1684.2
10°	1671.4	1666.5	1664.0	1662.2	1670.1
12.5°	1650.6	1646.3	1643.8	1642.6	1647.5
15°	1625.4	1618.7	1618.1	1615.0	1621.7
17.5°	1594.1	1588.0	1586.9	1585.6	1589.9
20°	1558.0	1551.9	1548.8	1548.2	1554.9
22.5°	1514.5	1510.2	1511.4	1507.8	1512.7
25°	1466.1	1464.3	1461.2	1458.7	1462.5
27.5°	1415.9	1409.8	1409.8	1404.9	1408.5
30°	1358.3	1354.0	1350.3	1345.4	1347.9
32.5°	1293.4	1291.5	1286.0	1281.1	1282.3
35°	1230.2	1225.3	1220.4	1213.1	1209.4
37.5°	1158.0	1153.1	1147.0	1136.5	1135.3
40°	1084.4	1080.2	1070.3	1059.3	1059.9
42.5°	1014.6	1007.8	995.6	980.9	977.8
45°	930.0	926.4	913.5	899.4	896.4
47.5°	854.7	852.2	836.3	821.5	817.9
50°	779.3	772.6	759.1	744.4	736.5
52.5°	705.2	696.6	679.5	669.7	665.9
55°	632.3	624.9	610.2	594.9	591.2
57.5°	564.3	556.3	538.5	527.5	525.7
60°	499.3	491.9	473.0	465.0	464.4
62.5°	441.7	429.5	416.6	411.1	411.7
65°	386.0	373.7	360.3	359.0	362.7
67.5°	337.0	324.1	310.6	315.5	319.2
70°	287.4	278.2	270.8	278.7	283.6
72.5°	245.1	239.5	232.8	243.9	250.0
75°	211.4	204.0	200.4	210.1	218.8
77.5°	175.3	169.1	169.1	179.5	188.7
80°	142.1	137.9	138.5	150.7	156.2
82.5°	111.5	105.4	106.0	121.3	124.9
85°	78.4	73.5	74.2	87.0	86.4
87.5°	41.0	39.2	41.0	50.2	47.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)