

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: P213708

Luminaire Tested: **22GR-LD5-43-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35595)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-F1-UNV-L950-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4378.1 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

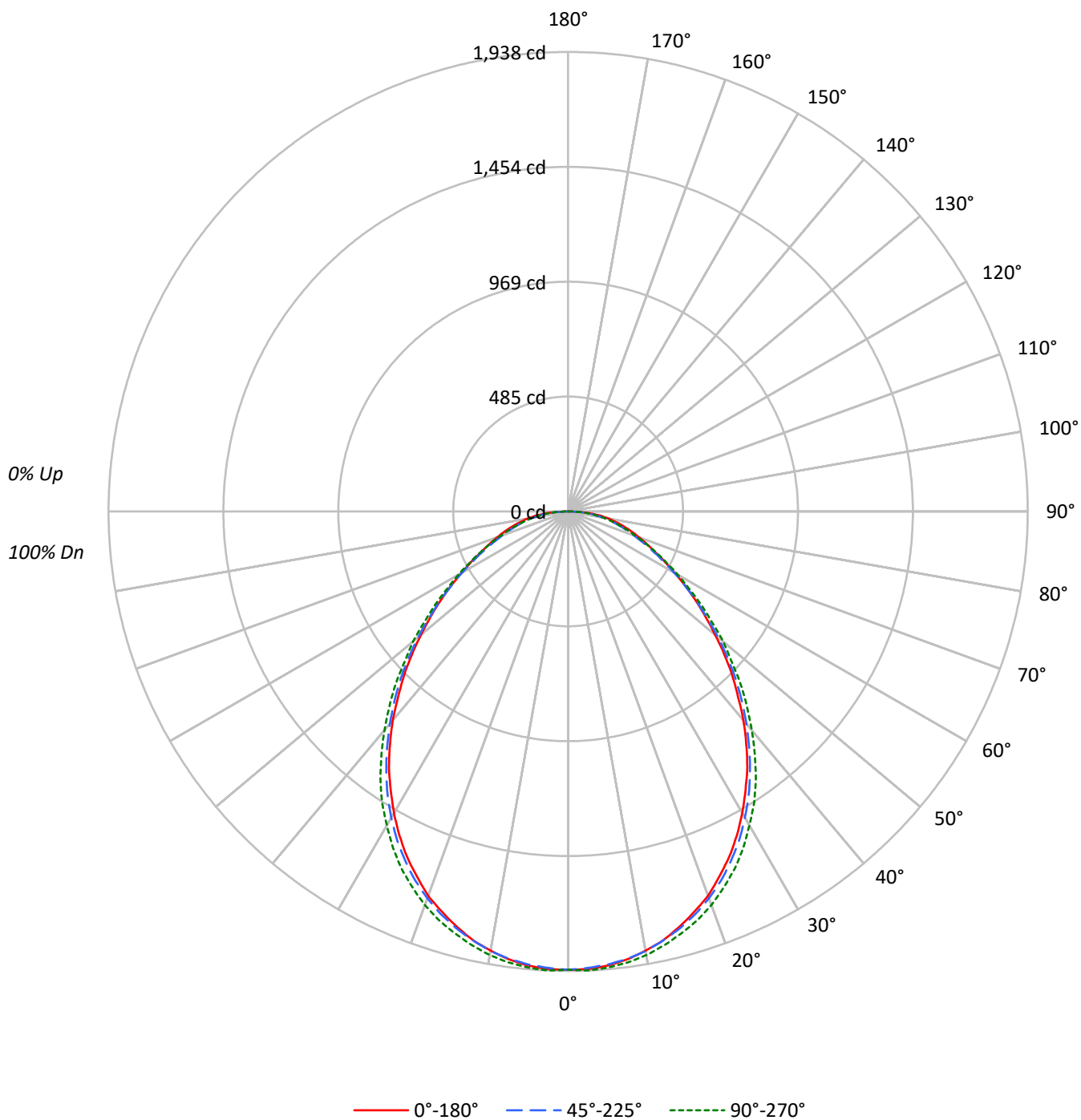
Input Watts (W): 40.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	105	101	97	107	103	99	96		98	95	93			95	92	90			91
2	100	93	86	81	98	91	85	80		87	82	78			84	80	76			81
3	92	82	74	68	90	81	73	68		78	72	67			75	70	65			72
4	85	73	65	59	83	72	64	58		70	63	58			67	62	57			65
5	78	66	58	51	76	65	57	51		63	56	51			61	55	50			59
6	73	60	51	45	71	59	51	45		57	50	45			56	49	44			54
7	68	55	46	40	66	54	46	40		52	45	40			51	45	40			50
8	63	50	42	36	62	49	42	36		48	41	36			47	41	36			46
9	59	46	38	33	58	46	38	33		45	38	33			43	37	33			42
10	56	43	35	30	54	42	35	30		41	35	30			40	34	30			40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6190	6190	6190
5°	6181	6165	6207
10°	6116	6122	6178
15°	6012	6036	6109
20°	5879	5917	6019
25°	5681	5744	5872
30°	5432	5514	5652
35°	5150	5225	5394
40°	4806	4886	5037
45°	4434	4520	4657
50°	4033	4107	4252
55°	3667	3695	3807
60°	3325	3300	3422
65°	3059	2975	3097
70°	2971	2755	2858
75°	3007	2696	2733
80°	3203	2759	2796
85°	3542	2954	2918



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	4.2
10°-20°	513.9	11.7
20°-30°	749.1	17.1
30°-40°	837.4	19.1
40°-50°	770.1	17.6
50°-60°	596.6	13.6
60°-70°	399.9	9.1
70°-80°	239.3	5.5
80°-90°	89.5	2.0
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°	1445.3	33.0
0°-40°	2282.6	52.1
0°-60°	3649.4	83.4
0°-90°	4378.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4378.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1933	1933	1933	1933	1933	
5°	1923	1919	1918	1926	1931	182
15°	1813	1815	1820	1834	1843	511
25°	1608	1612	1626	1649	1662	738
35°	1317	1319	1336	1362	1380	821
45°	979	982	998	1013	1028	754
55°	657	658	662	672	682	589
65°	404	401	393	397	409	406
75°	243	233	218	216	221	258
85°	96	97	80	75	79	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1932.9	1932.9	1932.9	1932.9	1932.9
2.5°	1931.9	1927.9	1926.9	1932.9	1937.9
5°	1922.8	1918.8	1917.8	1925.9	1930.9
7.5°	1905.8	1902.8	1903.8	1911.8	1918.8
10°	1880.7	1879.7	1882.7	1892.7	1899.8
12.5°	1852.6	1850.6	1853.6	1866.7	1873.7
15°	1813.4	1815.4	1820.5	1834.5	1842.6
17.5°	1770.2	1772.2	1781.3	1795.3	1808.4
20°	1725.1	1724.1	1736.1	1755.2	1766.2
22.5°	1665.8	1670.9	1684.9	1705.0	1716.0
25°	1607.6	1611.6	1625.6	1648.7	1661.8
27.5°	1540.3	1547.4	1562.4	1584.5	1599.5
30°	1469.0	1475.0	1491.1	1516.2	1528.3
32.5°	1391.7	1399.8	1416.8	1443.9	1459.0
35°	1317.4	1319.4	1336.5	1362.5	1379.7
37.5°	1233.0	1238.1	1254.2	1283.3	1292.3
40°	1149.7	1153.7	1168.8	1192.9	1204.9
42.5°	1060.3	1067.3	1083.4	1101.6	1115.6
45°	979.0	982.0	998.1	1013.1	1028.2
47.5°	893.6	896.7	910.7	926.8	932.8
50°	809.4	813.4	824.4	840.5	853.5
52.5°	731.0	733.0	738.0	756.1	762.1
55°	656.7	657.7	661.8	671.8	681.8
57.5°	586.4	585.4	584.4	593.4	602.5
60°	519.2	517.2	515.2	522.2	534.2
62.5°	459.9	457.9	449.8	457.9	467.9
65°	403.7	400.7	392.6	396.7	408.7
67.5°	359.4	353.4	340.4	345.4	354.4
70°	317.3	309.3	294.2	298.2	305.2
72.5°	280.2	268.1	255.1	256.1	263.1
75°	243.0	233.0	217.9	215.9	220.9
77.5°	207.8	199.8	183.7	180.7	184.7
80°	173.7	165.7	149.6	143.6	151.6
82.5°	136.6	133.6	115.5	111.5	114.5
85°	96.4	97.4	80.4	75.3	79.4
87.5°	49.2	51.2	41.1	40.1	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)