

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: P213918

Luminaire Tested: **22GR-LD5-43-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-A19/156-UNV-L935-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3649.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

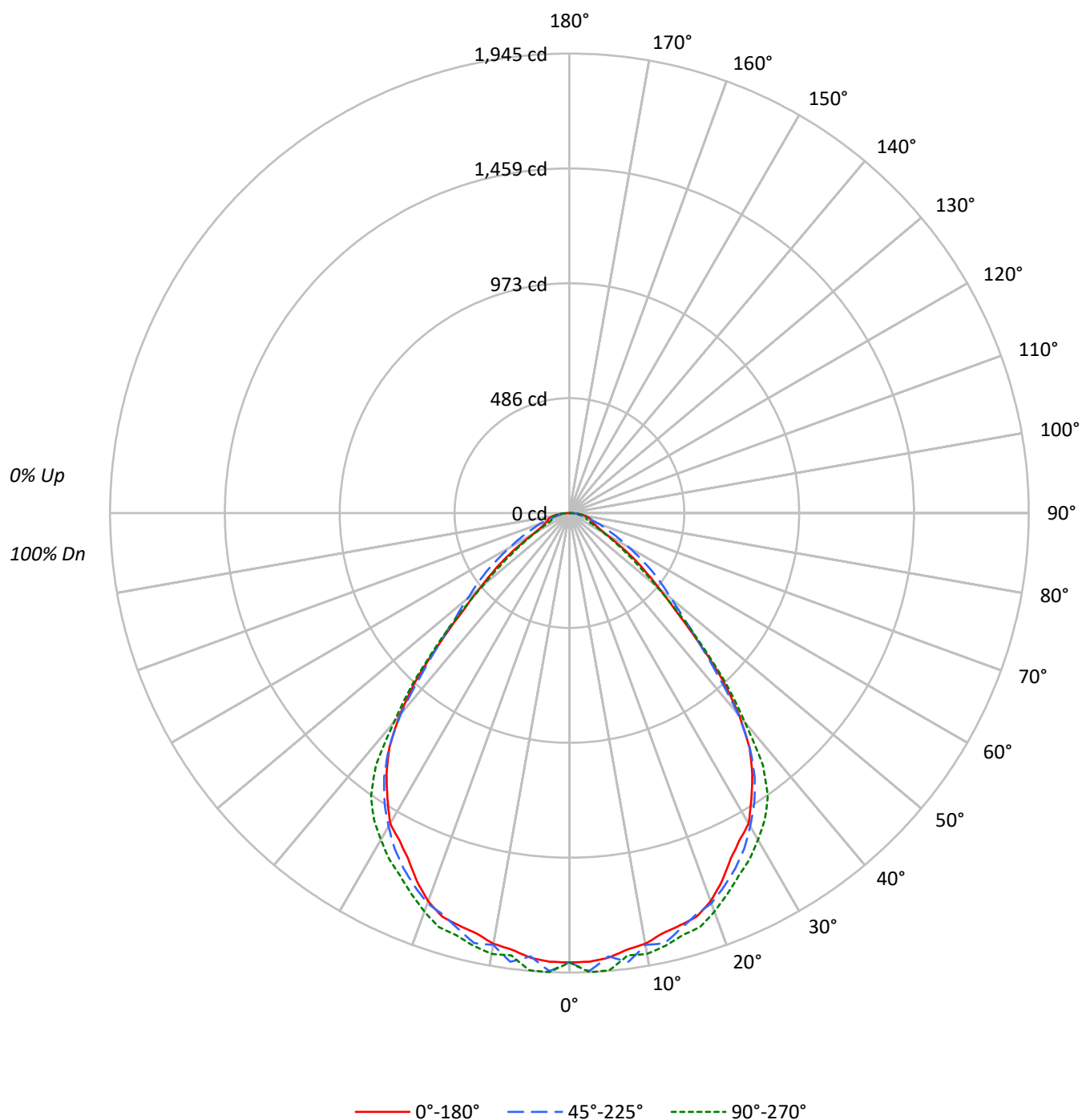
Input Watts (W): 40.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	85	100	94	89	85	91	86	83		88	84	81		85
3	95	86	79	74	93	85	79	73	82	77	72		79	75	71		77
4	88	78	71	65	86	77	70	64	75	68	64		72	67	63		70
5	82	71	63	58	80	70	63	57	68	62	57		66	61	56		64
6	77	65	57	51	75	64	57	51	62	56	51		61	55	50		59
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		51
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6090	6090	6090
5°	6075	6056	6246
10°	6019	6036	6162
15°	5992	6037	6134
20°	5960	5989	6118
25°	5706	5866	5988
30°	5612	5662	5904
35°	5277	5345	5724
40°	4676	4644	4827
45°	3493	3500	3598
50°	2459	2797	2381
55°	1815	2362	1628
60°	1134	1867	1063
65°	925	1479	743
70°	918	1232	732
75°	1138	905	947
80°	1269	714	1156
85°	1264	1326	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	5.0
10°-20°	515.7	14.1
20°-30°	763.7	20.9
30°-40°	855.5	23.4
40°-50°	628.6	17.2
50°-60°	351.4	9.6
60°-70°	195.8	5.4
70°-80°	115.1	3.2
80°-90°	42.3	1.2
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°	1460.4	40.0
0°-40°	2315.9	63.5
0°-60°	3295.9	90.3
0°-90°	3649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1890	1925	1884	1922	1943	179
15°	1807	1818	1821	1848	1850	510
25°	1615	1628	1660	1683	1695	748
35°	1350	1351	1367	1429	1464	836
45°	771	834	773	828	794	603
55°	325	396	423	422	292	290
65°	122	217	195	250	98	126
75°	92	130	73	147	76	92
85°	34	51	36	46	35	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1901.8	1901.8	1901.8	1901.8	1901.8
2.5°	1900.9	1918.1	1940.5	1943.0	1944.8
5°	1889.7	1925.0	1883.8	1922.4	1943.0
7.5°	1864.0	1885.5	1915.6	1876.9	1888.0
10°	1851.0	1856.2	1856.2	1904.3	1894.9
12.5°	1821.8	1856.2	1864.8	1855.4	1876.0
15°	1807.2	1818.4	1821.0	1848.5	1850.2
17.5°	1790.9	1788.3	1782.3	1802.1	1837.3
20°	1748.7	1739.3	1757.4	1781.4	1795.2
22.5°	1686.8	1689.5	1710.9	1730.7	1746.2
25°	1614.7	1627.5	1660.2	1683.4	1694.6
27.5°	1560.4	1579.4	1601.7	1629.3	1651.6
30°	1517.5	1515.7	1531.2	1570.8	1596.6
32.5°	1434.0	1440.1	1456.4	1503.7	1539.9
35°	1349.8	1350.6	1367.1	1428.9	1464.1
37.5°	1252.6	1245.8	1255.3	1322.3	1345.6
40°	1118.5	1120.3	1110.8	1158.1	1154.6
42.5°	962.0	975.8	926.8	988.7	984.4
45°	771.2	833.9	772.9	828.0	794.4
47.5°	608.7	701.6	650.8	691.2	628.5
50°	493.5	589.0	561.4	579.4	478.0
52.5°	404.9	482.3	491.0	495.2	373.2
55°	325.0	395.5	423.0	422.1	291.5
57.5°	239.9	321.6	353.3	366.3	221.0
60°	177.1	267.4	291.5	319.9	165.9
62.5°	142.7	234.7	240.7	280.2	126.4
65°	122.1	216.7	195.2	250.2	98.0
67.5°	108.3	202.0	159.0	223.6	83.4
70°	98.0	179.7	131.6	200.3	78.2
72.5°	95.5	153.0	101.5	178.8	77.4
75°	92.0	129.8	73.1	147.0	76.5
77.5°	79.1	110.9	52.4	113.5	71.4
80°	68.8	88.6	38.7	85.1	62.7
82.5°	53.3	67.1	34.4	64.5	50.7
85°	34.4	50.7	36.1	46.4	35.3
87.5°	16.3	28.4	25.8	24.9	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)