

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: P475959

Luminaire Tested: **22GR-LD5-43-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475959
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-F125-UNV-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4439.7 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

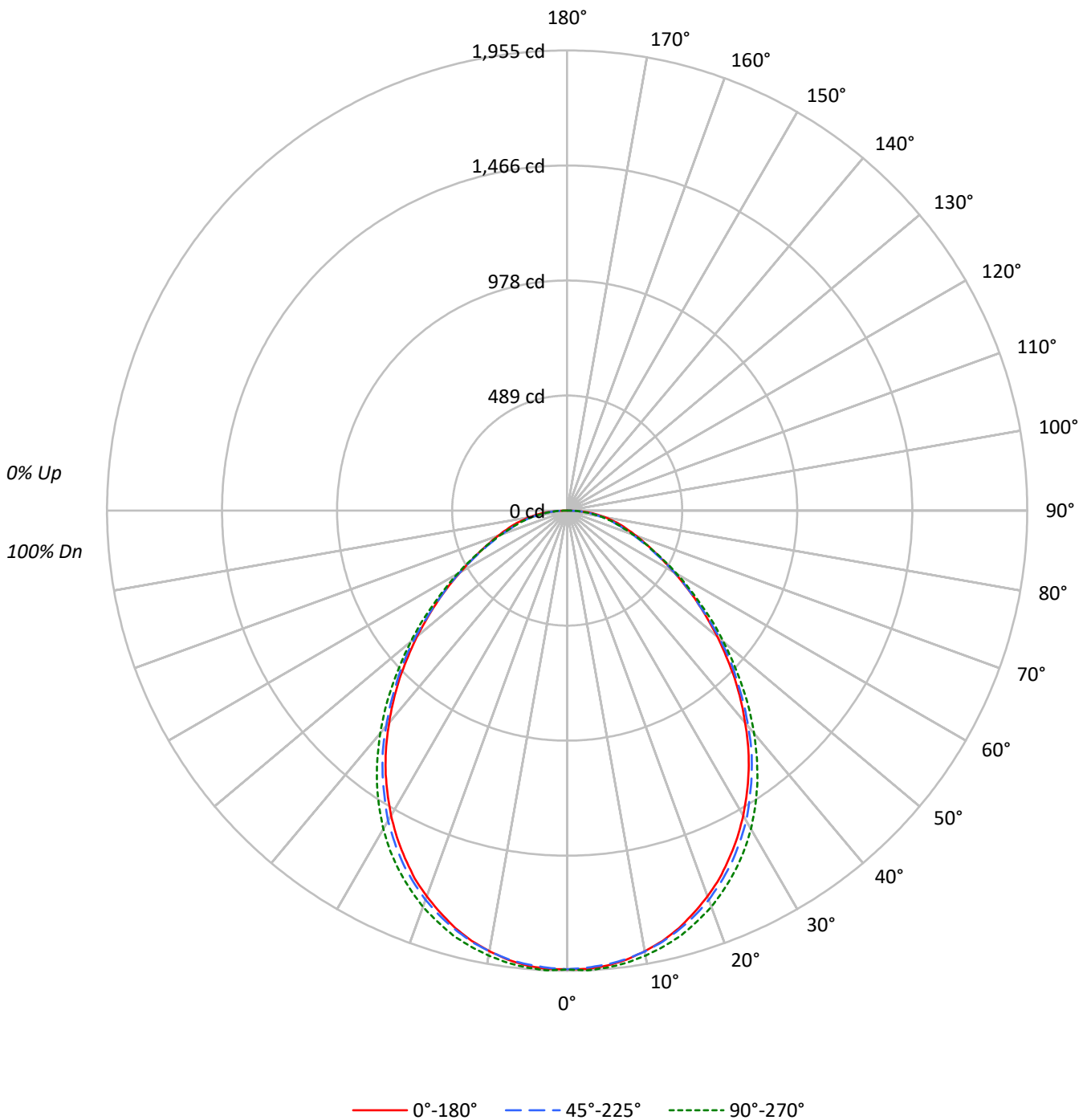
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5245	5245	5245
5°	5243	5229	5265
10°	5194	5197	5244
15°	5115	5131	5207
20°	4994	5039	5130
25°	4839	4906	5013
30°	4648	4728	4853
35°	4419	4491	4630
40°	4133	4201	4339
45°	3826	3886	3999
50°	3485	3540	3632
55°	3147	3156	3248
60°	2822	2833	2900
65°	2572	2518	2577
70°	2447	2309	2350
75°	2462	2227	2239
80°	2555	2252	2235
85°	2803	2381	2254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	4.1
10°-20°	520.2	11.7
20°-30°	761.3	17.1
30°-40°	856.0	19.3
40°-50°	789.4	17.8
50°-60°	608.4	13.7
60°-70°	401.5	9.0
70°-80°	233.6	5.3
80°-90°	85.1	1.9
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°	1465.7	33.0
0°-40°	2321.7	52.3
0°-60°	3719.5	83.8
0°-90°	4439.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4439.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1949	1949	1949	1949	1949	
5°	1941	1937	1936	1945	1949	184
15°	1836	1836	1842	1858	1869	517
25°	1630	1638	1652	1675	1688	750
35°	1345	1352	1367	1395	1409	839
45°	1005	1006	1021	1041	1051	774
55°	671	670	673	684	692	602
65°	404	402	396	399	405	405
75°	237	227	214	210	215	249
85°	91	90	77	71	73	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1949.0	1949.0	1949.0	1949.0	1949.0
2.5°	1949.0	1944.9	1943.8	1951.2	1955.2
5°	1940.8	1936.7	1935.6	1944.9	1949.0
7.5°	1924.5	1921.2	1922.3	1932.6	1937.8
10°	1900.7	1899.6	1901.8	1913.0	1919.3
12.5°	1872.9	1871.8	1875.9	1888.2	1896.7
15°	1835.9	1835.9	1841.9	1858.5	1868.9
17.5°	1791.4	1794.4	1803.7	1820.3	1831.5
20°	1744.0	1747.3	1759.6	1778.1	1791.4
22.5°	1691.4	1695.8	1708.0	1730.7	1742.1
25°	1629.8	1638.0	1652.4	1675.1	1688.4
27.5°	1565.8	1575.0	1588.4	1616.5	1628.7
30°	1495.7	1502.0	1521.6	1547.2	1561.7
32.5°	1421.6	1427.9	1444.2	1475.3	1487.6
35°	1345.3	1351.6	1367.1	1394.9	1409.3
37.5°	1263.0	1268.2	1286.7	1308.2	1323.8
40°	1176.6	1183.7	1195.9	1221.8	1235.2
42.5°	1092.1	1095.1	1108.4	1134.3	1144.4
45°	1005.4	1006.5	1021.0	1041.4	1050.7
47.5°	915.8	917.9	935.4	947.6	956.9
50°	832.4	833.4	845.7	857.2	867.5
52.5°	749.0	749.0	755.2	767.5	780.8
55°	670.7	669.6	672.6	684.1	692.3
57.5°	596.6	595.5	599.6	606.7	613.0
60°	524.4	522.2	526.3	530.6	538.8
62.5°	460.6	462.5	457.3	463.6	469.9
65°	403.9	401.7	395.5	398.7	404.7
67.5°	355.4	352.4	342.0	344.0	351.3
70°	311.0	305.0	293.5	293.5	298.7
72.5°	270.9	264.6	250.2	251.3	253.5
75°	236.8	226.8	214.2	210.1	215.3
77.5°	199.8	191.6	180.2	177.2	179.3
80°	164.9	158.6	145.3	141.2	144.2
82.5°	130.8	125.6	110.1	107.1	108.2
85°	90.8	89.7	77.1	71.1	73.0
87.5°	48.5	49.3	40.1	36.0	38.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)