

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: P476078

Luminaire Tested: **22GR-LD5-40-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476078
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-A125-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3983.9 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

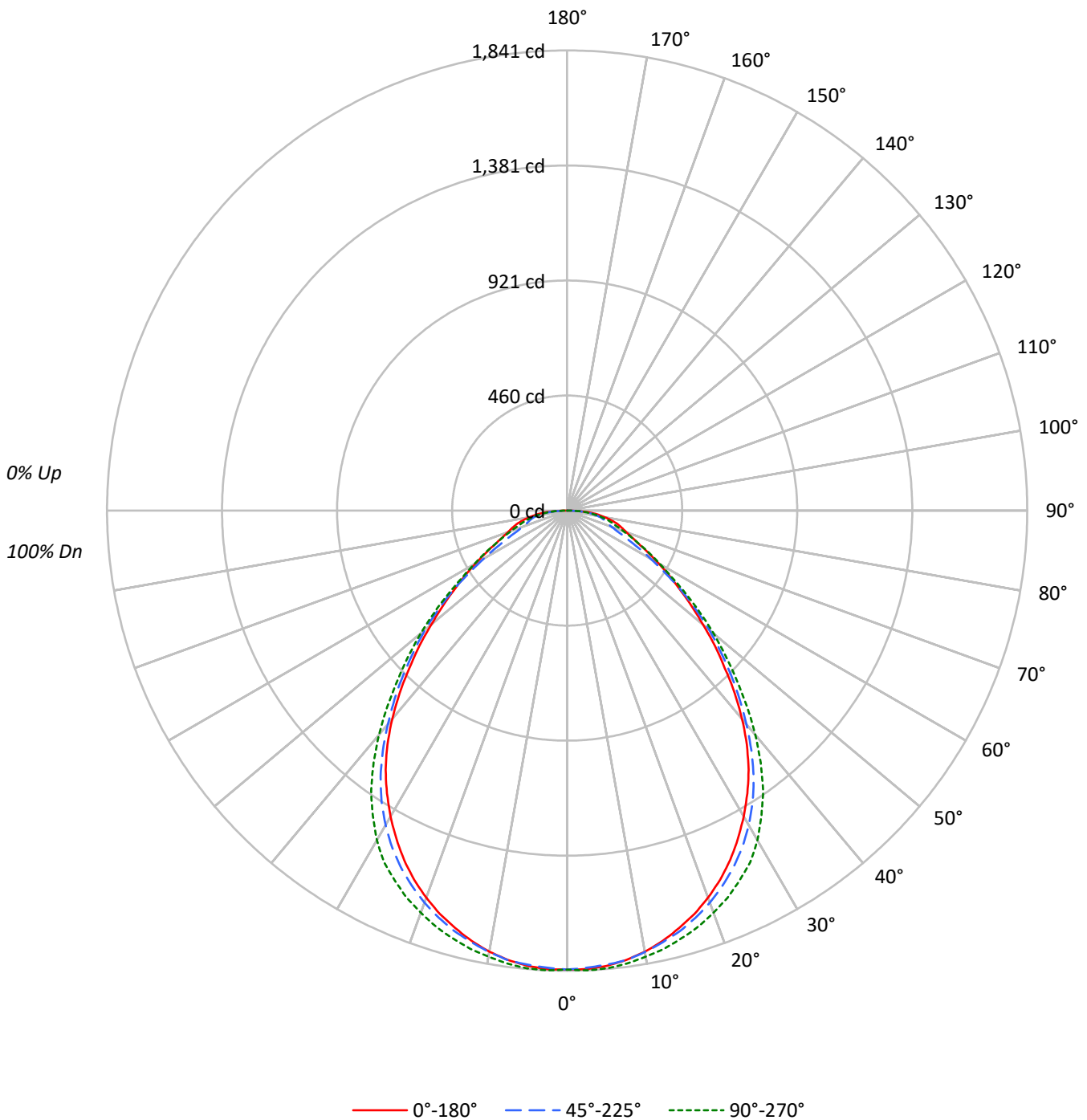
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4942	4942	4942
5°	4938	4925	4966
10°	4896	4901	4952
15°	4818	4852	4935
20°	4719	4780	4903
25°	4581	4675	4846
30°	4390	4514	4731
35°	4159	4275	4491
40°	3825	3919	4115
45°	3397	3521	3648
50°	2967	3103	3197
55°	2579	2615	2711
60°	2270	2080	2315
65°	2017	1662	2028
70°	1980	1475	1872
75°	2165	1623	1911
80°	2377	1928	2046
85°	2837	2238	2291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	4.4
10°-20°	492.2	12.4
20°-30°	726.6	18.2
30°-40°	813.1	20.4
40°-50°	714.0	17.9
50°-60°	505.2	12.7
60°-70°	294.1	7.4
70°-80°	183.3	4.6
80°-90°	82.0	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°	1392.4	34.9
0°-40°	2205.4	55.4
0°-60°	3424.6	86.0
0°-90°	3983.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3983.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1836	1836	1836	1836	1836	
5°	1828	1823	1823	1833	1838	173
15°	1730	1733	1742	1760	1771	487
25°	1543	1549	1574	1612	1632	709
35°	1266	1272	1301	1340	1367	787
45°	893	903	925	947	958	690
55°	550	561	557	568	578	497
65°	317	292	261	284	318	321
75°	208	179	156	160	184	217
85°	92	96	72	70	74	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1836.4	1836.4	1836.4	1836.4	1836.4
2.5°	1836.4	1832.7	1830.8	1837.4	1841.1
5°	1828.0	1823.4	1823.4	1832.7	1838.4
7.5°	1813.3	1808.6	1814.0	1822.4	1828.0
10°	1791.9	1790.0	1793.6	1804.9	1812.3
12.5°	1763.9	1764.9	1768.6	1786.3	1795.6
15°	1729.5	1733.2	1741.8	1760.2	1771.3
17.5°	1692.4	1695.3	1708.1	1729.5	1745.5
20°	1647.9	1653.3	1669.3	1696.1	1712.0
22.5°	1598.5	1605.1	1624.5	1657.2	1676.7
25°	1543.0	1549.3	1574.4	1611.5	1632.2
27.5°	1479.8	1489.9	1517.9	1558.7	1586.5
30°	1412.9	1421.3	1452.8	1499.2	1522.6
32.5°	1341.4	1351.5	1381.2	1425.7	1446.4
35°	1266.0	1271.6	1301.4	1340.4	1367.2
37.5°	1180.7	1183.4	1211.2	1247.5	1271.6
40°	1088.8	1090.5	1115.6	1150.0	1171.3
42.5°	992.9	993.9	1020.9	1046.7	1065.4
45°	892.6	903.0	925.1	947.4	958.5
47.5°	802.4	810.1	830.5	849.9	860.2
50°	708.8	727.2	741.2	751.6	763.6
52.5°	627.9	643.7	647.4	659.4	669.7
55°	549.8	561.1	557.4	567.5	577.8
57.5°	483.9	478.3	466.2	483.9	496.9
60°	421.7	406.8	386.4	410.7	430.1
62.5°	366.0	341.9	316.8	340.9	373.3
65°	316.8	291.7	261.0	284.4	318.5
67.5°	279.7	253.6	217.3	240.6	275.0
70°	251.7	224.9	187.5	207.2	237.9
72.5°	229.6	200.5	168.1	181.1	207.2
75°	208.2	179.2	156.1	159.8	183.8
77.5°	183.1	161.7	143.0	141.1	159.8
80°	153.4	146.7	124.4	121.7	132.0
82.5°	126.3	123.6	102.2	99.3	103.2
85°	91.9	95.6	72.5	70.5	74.2
87.5°	48.4	52.8	38.1	40.1	40.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)