

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: P476099

Luminaire Tested: **22GR-LD5-28-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476099
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A125-UNV-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2905.5 lumens
Efficiency: N/A
Efficacy: 138.4 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

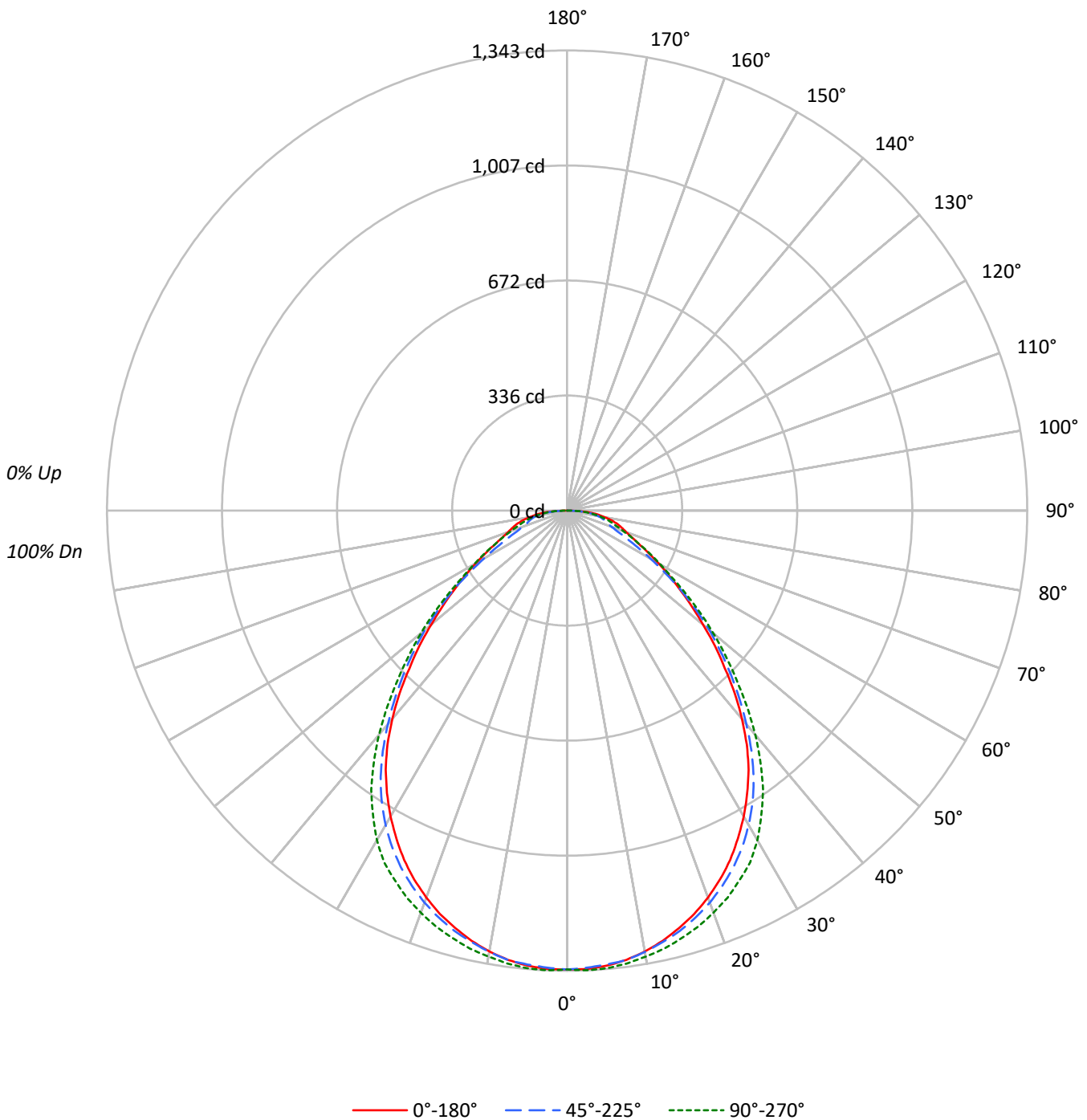
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3604	3604	3604
5°	3601	3592	3622
10°	3571	3574	3612
15°	3514	3539	3599
20°	3442	3486	3576
25°	3341	3409	3534
30°	3202	3292	3450
35°	3033	3118	3276
40°	2789	2858	3001
45°	2477	2568	2660
50°	2164	2263	2331
55°	1881	1907	1977
60°	1655	1517	1688
65°	1471	1212	1479
70°	1444	1076	1365
75°	1578	1183	1394
80°	1733	1406	1492
85°	2069	1633	1670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	4.4
10°-20°	359.0	12.4
20°-30°	529.9	18.2
30°-40°	593.0	20.4
40°-50°	520.7	17.9
50°-60°	368.4	12.7
60°-70°	214.5	7.4
70°-80°	133.6	4.6
80°-90°	59.8	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°	1015.5	34.9
0°-40°	1608.4	55.4
0°-60°	2497.6	86.0
0°-90°	2905.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2905.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1333	1330	1330	1337	1341	126
15°	1261	1264	1270	1284	1292	355
25°	1125	1130	1148	1175	1190	517
35°	923	927	949	978	997	574
45°	651	658	675	691	699	504
55°	401	409	406	414	421	362
65°	231	213	190	207	232	234
75°	152	131	114	116	134	159
85°	67	70	53	51	54	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.3	1339.3	1339.3	1339.3	1339.3
2.5°	1339.3	1336.6	1335.2	1340.0	1342.7
5°	1333.2	1329.8	1329.8	1336.6	1340.7
7.5°	1322.5	1319.1	1323.0	1329.1	1333.2
10°	1306.9	1305.4	1308.1	1316.4	1321.7
12.5°	1286.4	1287.1	1289.8	1302.7	1309.6
15°	1261.3	1264.0	1270.3	1283.7	1291.8
17.5°	1234.3	1236.4	1245.7	1261.3	1273.0
20°	1201.8	1205.8	1217.4	1237.0	1248.6
22.5°	1165.8	1170.6	1184.8	1208.6	1222.8
25°	1125.3	1130.0	1148.2	1175.3	1190.4
27.5°	1079.2	1086.6	1107.0	1136.8	1157.0
30°	1030.5	1036.6	1059.5	1093.4	1110.4
32.5°	978.3	985.7	1007.3	1039.8	1054.8
35°	923.3	927.4	949.1	977.6	997.1
37.5°	861.1	863.1	883.3	909.8	927.4
40°	794.0	795.3	813.6	838.7	854.3
42.5°	724.1	724.9	744.6	763.4	777.0
45°	651.0	658.5	674.7	691.0	699.0
47.5°	585.2	590.8	605.7	619.8	627.4
50°	516.9	530.4	540.6	548.1	556.9
52.5°	458.0	469.4	472.1	480.9	488.4
55°	401.0	409.2	406.5	413.9	421.4
57.5°	352.9	348.8	340.0	352.9	362.4
60°	307.6	296.6	281.8	299.5	313.7
62.5°	266.9	249.3	231.0	248.6	272.3
65°	231.0	212.8	190.4	207.4	232.3
67.5°	204.0	185.0	158.5	175.5	200.6
70°	183.5	164.0	136.8	151.1	173.5
72.5°	167.4	146.3	122.6	132.1	151.1
75°	151.8	130.7	113.8	116.5	134.1
77.5°	133.5	117.9	104.3	102.9	116.5
80°	111.8	107.0	90.7	88.7	96.3
82.5°	92.1	90.2	74.6	72.4	75.3
85°	67.0	69.7	52.9	51.4	54.1
87.5°	35.3	38.5	27.8	29.2	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)