

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: P476039

Luminaire Tested: **22GR-LD5-28-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476039
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2754.8 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

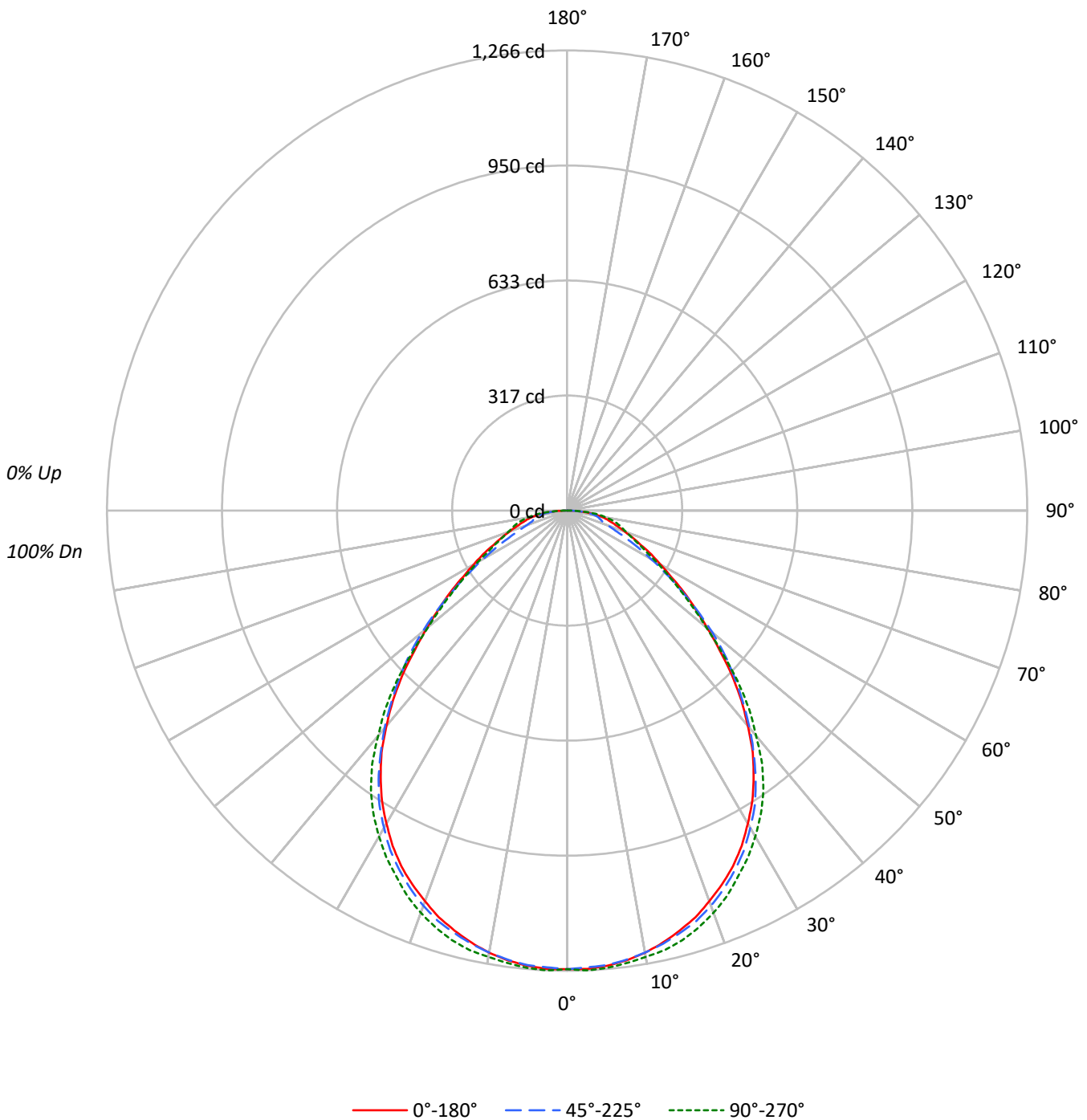
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	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	53	46	42	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	35	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	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3395	3395	3395
5°	3396	3391	3411
10°	3375	3374	3407
15°	3333	3351	3409
20°	3275	3313	3372
25°	3205	3241	3301
30°	3089	3132	3217
35°	2938	2971	3092
40°	2716	2745	2842
45°	2439	2484	2523
50°	2109	2184	2088
55°	1841	1792	1768
60°	1594	1435	1532
65°	1424	1126	1376
70°	1321	933	1357
75°	1319	986	1507
80°	1461	1241	1698
85°	1525	1346	1924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	4.3
10°-20°	340.0	12.3
20°-30°	502.9	18.3
30°-40°	567.5	20.6
40°-50°	500.3	18.2
50°-60°	343.2	12.5
60°-70°	202.5	7.4
70°-80°	126.4	4.6
80°-90°	52.7	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°	962.3	34.9
0°-40°	1529.8	55.5
0°-60°	2373.2	86.1
0°-90°	2754.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2754.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1257	1255	1255	1260	1263	119
15°	1196	1197	1203	1217	1224	337
25°	1080	1083	1092	1106	1112	496
35°	894	902	904	926	941	557
45°	641	644	653	656	663	492
55°	392	383	382	369	377	352
65°	224	197	177	205	216	225
75°	127	114	95	133	145	136
85°	49	46	44	57	62	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1261.5	1261.5	1261.5	1261.5	1261.5
2.5°	1262.2	1259.0	1257.8	1262.9	1266.1
5°	1257.1	1254.6	1255.3	1259.7	1262.9
7.5°	1248.1	1246.3	1246.3	1252.6	1255.8
10°	1235.2	1234.7	1234.7	1242.4	1246.8
12.5°	1217.4	1217.9	1220.5	1230.8	1238.5
15°	1196.2	1197.4	1202.7	1217.4	1223.7
17.5°	1173.2	1173.2	1183.3	1194.9	1202.7
20°	1143.6	1145.5	1157.0	1169.9	1177.6
22.5°	1113.5	1116.7	1126.3	1141.1	1148.1
25°	1079.5	1083.4	1091.7	1105.8	1111.6
27.5°	1039.8	1044.9	1053.9	1064.1	1076.3
30°	994.2	1002.0	1007.8	1021.9	1035.3
32.5°	948.1	955.2	961.6	976.4	991.7
35°	894.3	901.9	904.5	926.4	941.1
37.5°	839.2	842.4	843.6	865.5	881.4
40°	773.2	779.5	781.5	798.8	809.0
42.5°	709.6	712.3	716.0	728.9	741.1
45°	641.0	644.3	652.6	656.5	662.9
47.5°	569.3	578.9	588.4	576.2	576.9
50°	503.8	511.6	521.8	498.7	498.7
52.5°	445.4	449.4	450.0	430.9	434.6
55°	392.4	382.7	382.0	369.3	376.9
57.5°	339.1	326.4	321.8	317.9	326.9
60°	296.2	273.1	266.7	272.4	284.6
62.5°	260.9	231.4	219.2	233.9	244.9
65°	223.7	196.8	176.9	204.6	216.1
67.5°	194.9	169.3	143.7	182.7	191.0
70°	167.9	148.1	118.6	166.1	172.5
72.5°	146.2	130.8	102.6	150.0	157.8
75°	126.9	114.2	94.8	132.7	144.9
77.5°	111.6	97.4	88.5	114.7	129.4
80°	94.3	80.1	80.1	96.2	109.6
82.5°	74.3	62.8	64.8	78.2	87.9
85°	49.4	46.1	43.6	57.0	62.3
87.5°	24.9	25.6	23.1	29.5	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)