

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: P291985

Luminaire Tested: **22GR-LD5-28-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-F125-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2913.0 lumens
Efficiency: N/A
Efficacy: 130.5 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

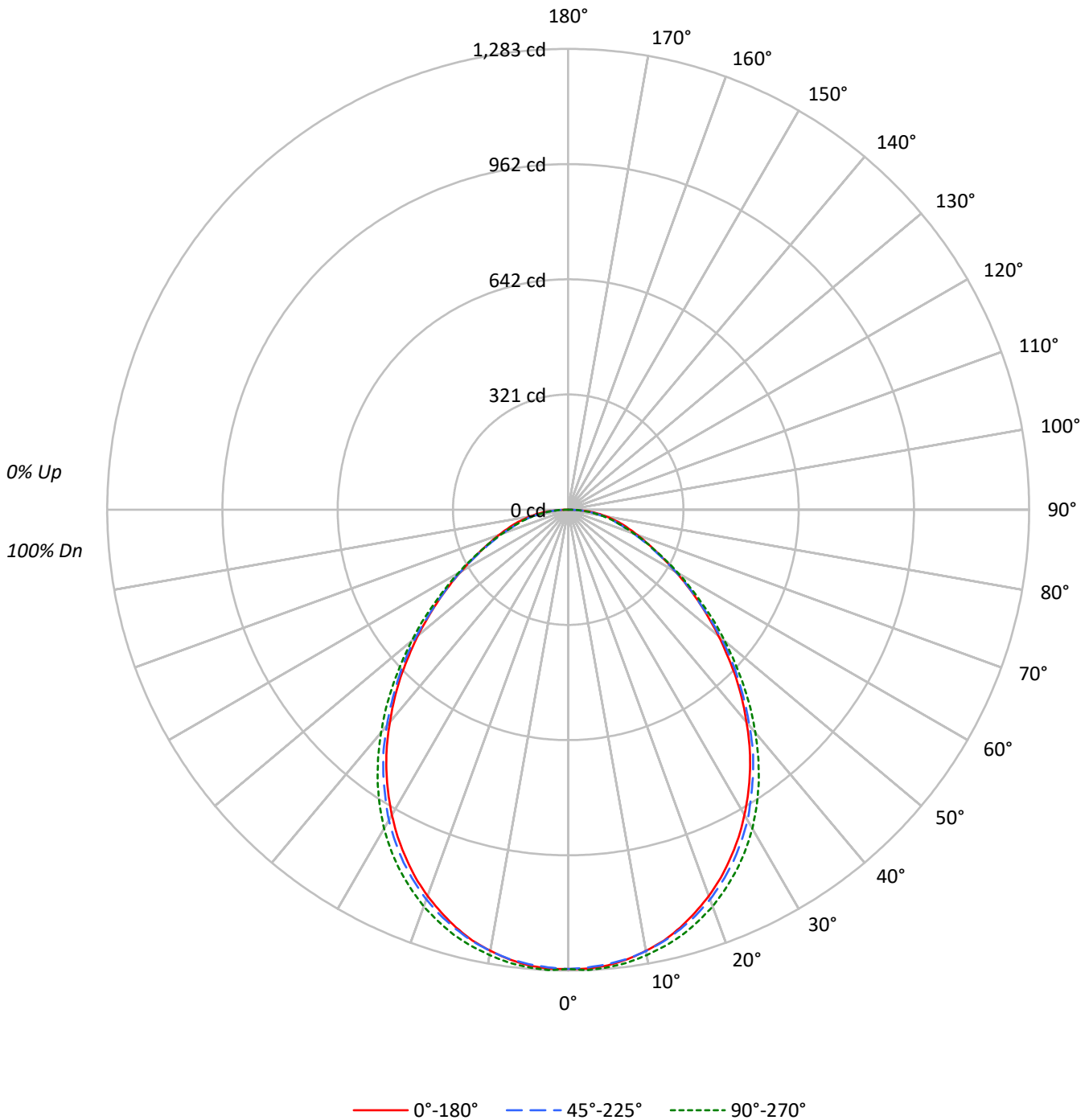
Input Watts (W): 22.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3441	3441	3441
5°	3440	3431	3454
10°	3408	3409	3441
15°	3356	3367	3416
20°	3277	3306	3366
25°	3175	3219	3289
30°	3049	3102	3184
35°	2900	2946	3037
40°	2712	2757	2847
45°	2511	2549	2624
50°	2286	2323	2382
55°	2064	2071	2131
60°	1851	1859	1903
65°	1687	1652	1691
70°	1606	1515	1542
75°	1617	1462	1469
80°	1675	1477	1466
85°	1837	1565	1482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	4.1
10°-20°	341.3	11.7
20°-30°	499.5	17.1
30°-40°	561.6	19.3
40°-50°	517.9	17.8
50°-60°	399.2	13.7
60°-70°	263.4	9.0
70°-80°	153.3	5.3
80°-90°	55.9	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°	961.6	33.0
0°-40°	1523.3	52.3
0°-60°	2440.4	83.8
0°-90°	2913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1273	1271	1270	1276	1279	121
15°	1204	1204	1208	1219	1226	339
25°	1069	1075	1084	1099	1108	492
35°	883	887	897	915	925	550
45°	660	660	670	683	689	508
55°	440	439	441	449	454	395
65°	265	264	260	262	266	266
75°	156	149	141	138	141	164
85°	60	59	51	47	48	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1278.8	1278.8	1278.8	1278.8	1278.8
2.5°	1278.8	1276.1	1275.4	1280.2	1282.9
5°	1273.4	1270.7	1270.0	1276.1	1278.8
7.5°	1262.6	1260.6	1261.2	1268.0	1271.4
10°	1247.1	1246.4	1247.7	1255.2	1259.2
12.5°	1228.8	1228.1	1230.8	1238.9	1244.3
15°	1204.5	1204.5	1208.5	1219.3	1226.1
17.5°	1175.4	1177.4	1183.5	1194.3	1201.8
20°	1144.3	1146.3	1154.5	1166.6	1175.4
22.5°	1109.8	1112.5	1120.7	1135.5	1143.0
25°	1069.3	1074.7	1084.2	1099.0	1107.8
27.5°	1027.4	1033.5	1042.3	1060.5	1068.6
30°	981.4	985.5	998.3	1015.2	1024.7
32.5°	932.8	936.8	947.6	967.9	976.0
35°	882.7	886.8	896.9	915.2	924.6
37.5°	828.7	832.0	844.2	858.4	868.5
40°	771.9	776.6	784.7	801.6	810.4
42.5°	716.5	718.5	727.3	744.2	750.9
45°	659.7	660.4	669.8	683.3	689.4
47.5°	600.9	602.2	613.7	621.8	627.9
50°	546.1	546.8	554.9	562.4	569.1
52.5°	491.4	491.4	495.4	503.6	512.3
55°	440.0	439.3	441.4	448.8	454.2
57.5°	391.4	390.7	393.4	398.1	402.2
60°	344.0	342.7	345.4	348.1	353.5
62.5°	302.1	303.5	300.1	304.2	308.2
65°	265.0	263.6	259.5	261.6	265.6
67.5°	233.2	231.2	224.4	225.8	230.5
70°	204.1	200.1	192.6	192.6	196.0
72.5°	177.8	173.7	164.2	164.9	166.3
75°	155.5	148.7	140.6	137.9	141.3
77.5°	131.1	125.7	118.3	116.3	117.6
80°	108.1	104.1	95.3	92.6	94.6
82.5°	85.8	82.5	72.3	70.3	71.0
85°	59.5	58.8	50.7	46.6	48.0
87.5°	31.8	32.4	26.4	23.7	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)