

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: P292278

Luminaire Tested: **22GR-LD5-28-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2489.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

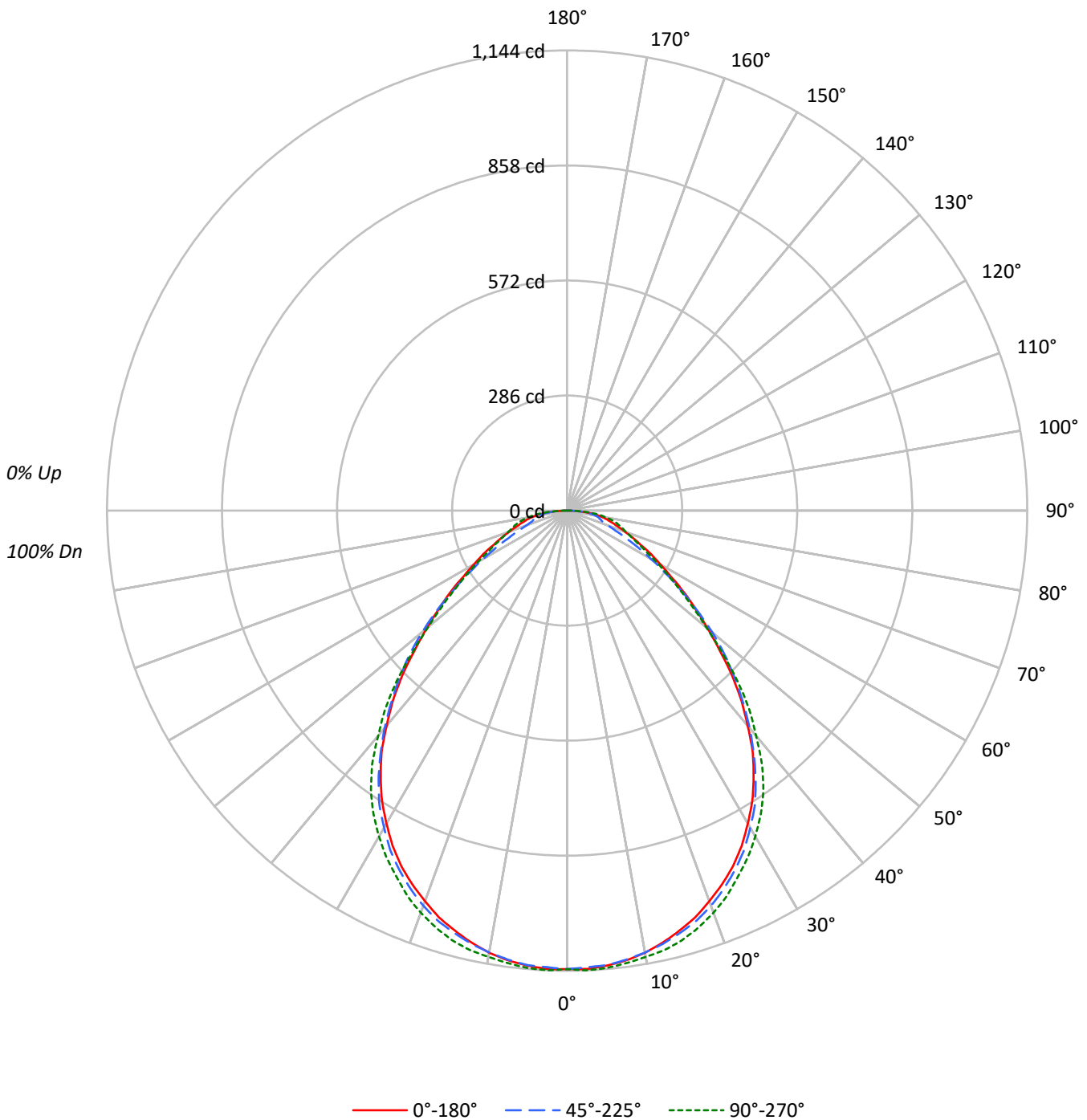
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3067	3067	3067
5°	3068	3063	3082
10°	3050	3048	3078
15°	3011	3027	3080
20°	2959	2994	3047
25°	2896	2929	2982
30°	2791	2829	2907
35°	2654	2685	2793
40°	2454	2480	2568
45°	2204	2244	2279
50°	1906	1974	1886
55°	1663	1620	1598
60°	1440	1297	1384
65°	1287	1018	1243
70°	1194	843	1226
75°	1193	891	1361
80°	1319	1122	1534
85°	1377	1216	1735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	4.3
10°-20°	307.2	12.3
20°-30°	454.4	18.3
30°-40°	512.7	20.6
40°-50°	452.0	18.2
50°-60°	310.1	12.5
60°-70°	183.0	7.4
70°-80°	114.2	4.6
80°-90°	47.6	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°	869.5	34.9
0°-40°	1382.2	55.5
0°-60°	2144.2	86.1
0°-90°	2489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1136	1134	1134	1138	1141	108
15°	1081	1082	1087	1100	1106	305
25°	975	979	986	999	1004	448
35°	808	815	817	837	850	503
45°	579	582	590	593	599	445
55°	354	346	345	334	341	318
65°	202	178	160	185	195	204
75°	115	103	86	120	131	123
85°	45	42	39	52	56	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139.9	1139.9	1139.9	1139.9	1139.9
2.5°	1140.5	1137.6	1136.4	1141.0	1143.9
5°	1135.8	1133.5	1134.1	1138.1	1141.0
7.5°	1127.7	1126.0	1126.0	1131.8	1134.7
10°	1116.1	1115.5	1115.5	1122.5	1126.6
12.5°	1099.9	1100.5	1102.8	1112.1	1119.0
15°	1080.8	1082.0	1086.6	1099.9	1105.7
17.5°	1059.9	1059.9	1069.2	1079.6	1086.6
20°	1033.3	1035.0	1045.5	1057.0	1064.0
22.5°	1006.1	1009.0	1017.7	1031.0	1037.4
25°	975.4	978.9	986.4	999.1	1004.3
27.5°	939.5	944.1	952.2	961.5	972.5
30°	898.3	905.3	910.5	923.2	935.4
32.5°	856.6	863.0	868.8	882.1	896.0
35°	808.0	814.9	817.3	836.9	850.3
37.5°	758.2	761.1	762.2	781.9	796.4
40°	698.5	704.3	706.0	721.7	731.0
42.5°	641.2	643.5	647.0	658.6	669.6
45°	579.2	582.1	589.6	593.1	598.9
47.5°	514.3	523.0	531.7	520.7	521.3
50°	455.3	462.2	471.5	450.6	450.6
52.5°	402.5	406.0	406.6	389.2	392.7
55°	354.5	345.8	345.2	333.6	340.6
57.5°	306.4	294.8	290.8	287.3	295.4
60°	267.6	246.7	240.9	246.2	257.2
62.5°	235.7	209.1	198.1	211.4	221.3
65°	202.1	177.8	159.9	184.8	195.2
67.5°	176.1	152.9	129.7	165.1	172.6
70°	151.8	133.8	107.2	150.0	155.8
72.5°	132.1	118.2	92.7	135.5	142.5
75°	114.7	103.1	85.7	119.9	130.9
77.5°	100.8	88.0	79.9	103.7	117.0
80°	85.1	72.4	72.4	86.9	99.0
82.5°	67.2	56.8	58.5	70.7	79.4
85°	44.6	41.7	39.4	51.5	56.2
87.5°	22.6	23.2	20.9	26.6	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)