

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: P291304

Luminaire Tested: **14GR-LD5-28-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-A125-UNV-L92765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2766.0 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

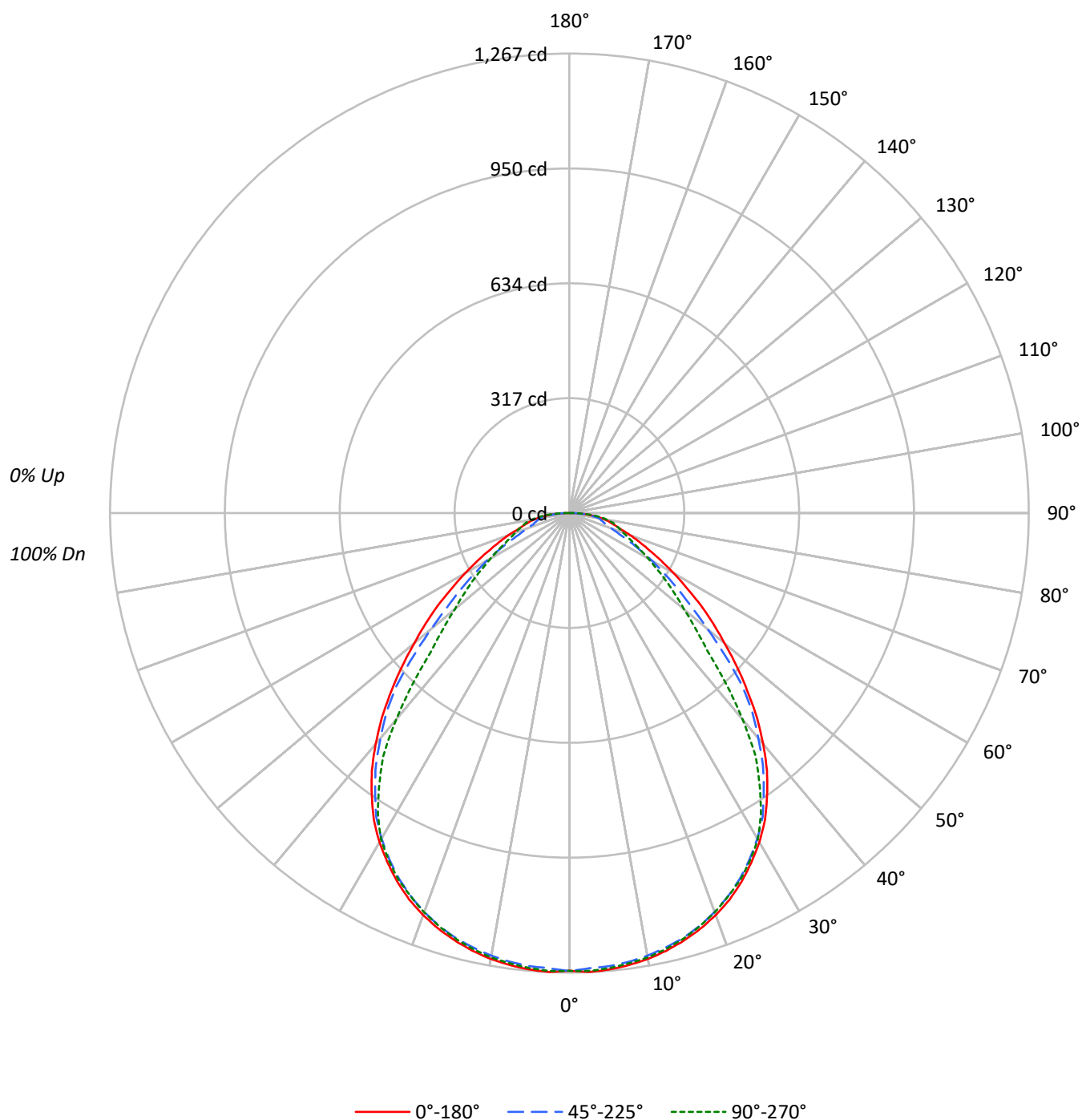
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3397	3397	3397
5°	3413	3387	3403
10°	3412	3386	3400
15°	3400	3379	3384
20°	3377	3352	3355
25°	3332	3302	3312
30°	3256	3220	3228
35°	3122	3069	3004
40°	2919	2847	2612
45°	2642	2567	2049
50°	2337	2076	1727
55°	2068	1707	1523
60°	1786	1413	1350
65°	1552	1124	1242
70°	1404	965	1242
75°	1347	1007	1388
80°	1502	1283	1621
85°	1584	1368	1942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	4.3
10°-20°	343.1	12.4
20°-30°	513.5	18.6
30°-40°	581.3	21.0
40°-50°	495.1	17.9
50°-60°	335.2	12.1
60°-70°	200.1	7.2
70°-80°	125.0	4.5
80°-90°	52.9	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°	976.3	35.3
0°-40°	1557.6	56.3
0°-60°	2388.0	86.3
0°-90°	2766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1264	1260	1254	1262	1260	120
15°	1220	1216	1213	1220	1215	344
25°	1122	1119	1112	1117	1115	516
35°	950	945	934	925	914	592
45°	694	696	674	575	538	535
55°	441	416	364	325	325	394
65°	244	203	176	189	195	246
75°	130	116	97	127	134	140
85°	51	48	44	56	63	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1262.2	1262.2	1262.2	1262.2	1262.2
2.5°	1266.7	1263.5	1256.4	1264.8	1263.5
5°	1263.5	1260.3	1253.9	1261.6	1259.6
7.5°	1257.1	1253.9	1248.1	1255.8	1252.6
10°	1248.7	1244.9	1239.1	1247.5	1244.2
12.5°	1235.9	1232.1	1226.9	1235.3	1230.8
15°	1220.5	1216.0	1212.8	1220.5	1214.7
17.5°	1201.9	1198.0	1193.6	1201.3	1194.8
20°	1179.4	1176.2	1170.5	1174.9	1171.7
22.5°	1153.8	1149.3	1143.5	1148.6	1144.1
25°	1122.3	1119.1	1112.1	1117.2	1115.3
27.5°	1086.4	1084.5	1076.1	1082.5	1079.3
30°	1047.9	1042.8	1036.3	1038.3	1038.9
32.5°	1003.6	997.2	992.1	987.6	983.1
35°	950.3	944.6	934.3	924.7	914.4
37.5°	895.2	887.5	877.2	856.0	843.2
40°	831.0	827.1	810.5	780.9	743.7
42.5°	765.5	761.7	746.9	680.8	640.4
45°	694.3	696.2	674.4	575.0	538.4
47.5°	626.3	631.4	583.9	490.9	471.6
50°	558.3	564.0	496.0	424.2	412.6
52.5°	498.6	494.1	422.9	372.2	367.0
55°	440.8	416.5	363.8	324.7	324.7
57.5°	381.8	347.2	309.3	284.3	284.3
60°	331.8	288.8	262.5	245.8	250.9
62.5°	285.6	240.0	217.5	214.3	220.7
65°	243.8	203.4	176.5	188.7	195.1
67.5°	209.8	173.9	145.0	170.7	174.5
70°	178.4	151.4	122.6	157.2	157.9
72.5°	149.5	133.5	105.2	142.5	145.0
75°	129.6	116.1	96.9	127.1	133.5
77.5°	113.6	99.5	89.2	109.7	121.9
80°	96.9	81.5	82.8	92.4	104.6
82.5°	74.4	62.9	65.5	75.7	85.3
85°	51.3	47.5	44.3	55.8	62.9
87.5°	27.6	25.7	22.5	31.4	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)