

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: P290763

Luminaire Tested: **14GR-LD5-28-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-F125-UNV-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2723.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

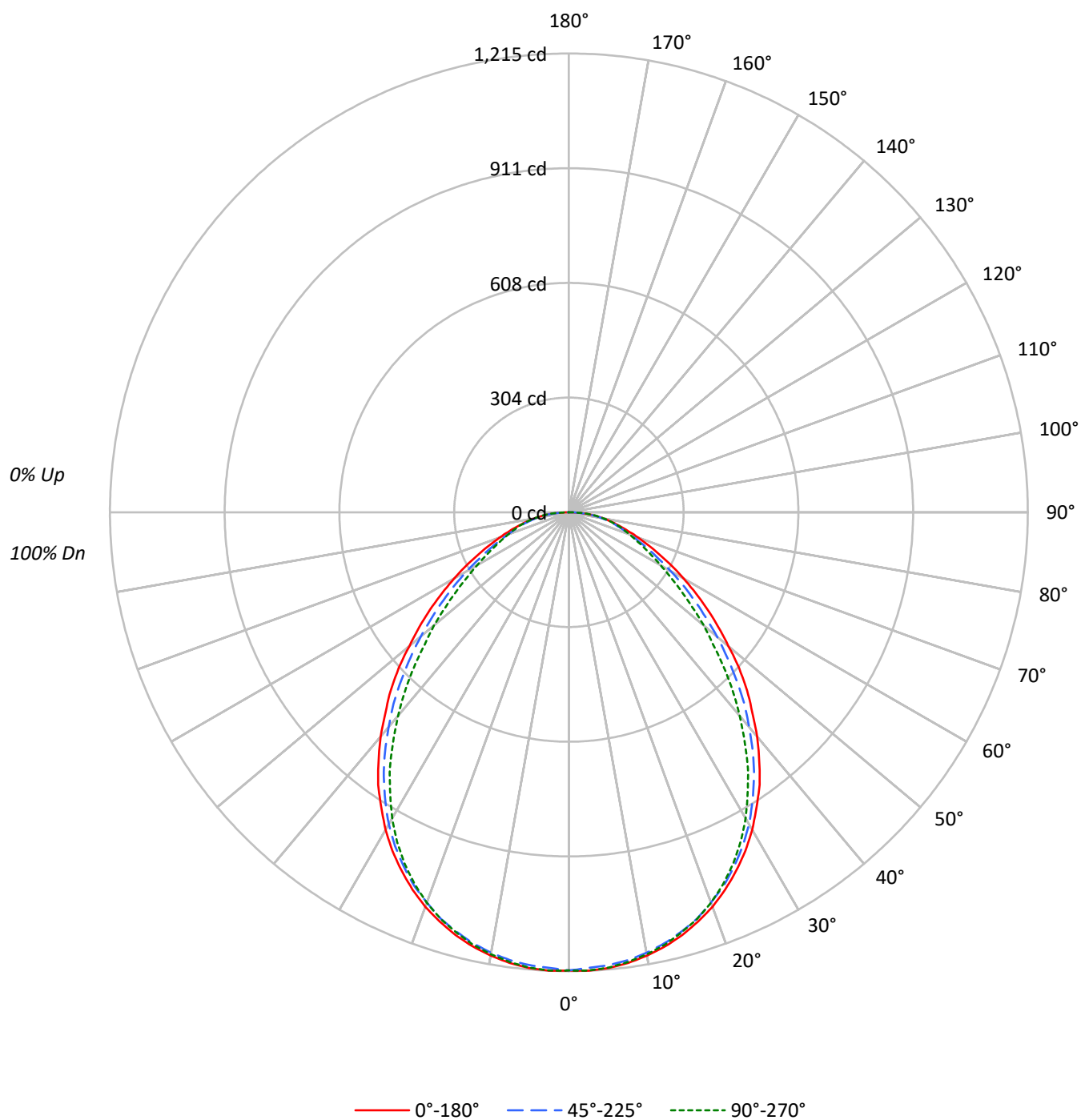
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3264	3264	3264
5°	3272	3251	3268
10°	3257	3236	3247
15°	3228	3203	3209
20°	3183	3148	3150
25°	3110	3072	3051
30°	3015	2963	2907
35°	2891	2807	2715
40°	2723	2607	2470
45°	2539	2386	2208
50°	2309	2141	1950
55°	2102	1898	1700
60°	1885	1672	1510
65°	1681	1489	1387
70°	1529	1358	1342
75°	1429	1323	1389
80°	1437	1367	1446
85°	1501	1402	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	4.2
10°-20°	325.2	11.9
20°-30°	476.8	17.5
30°-40°	532.1	19.5
40°-50°	481.8	17.7
50°-60°	363.8	13.4
60°-70°	237.8	8.7
70°-80°	139.7	5.1
80°-90°	51.1	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°	916.7	33.7
0°-40°	1448.8	53.2
0°-60°	2294.4	84.3
0°-90°	2723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1213	1213	1213	1213	1213	
5°	1211	1209	1204	1210	1210	115
15°	1159	1157	1150	1156	1152	327
25°	1048	1044	1035	1033	1028	482
35°	880	872	854	835	826	548
45°	667	657	627	593	580	513
55°	448	438	405	373	362	401
65°	264	256	234	220	218	265
75°	137	134	127	130	134	148
85°	49	47	45	51	52	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1213.1	1213.1	1213.1	1213.1	1213.1
2.5°	1215.0	1213.1	1207.3	1215.0	1214.4
5°	1211.2	1208.6	1203.5	1210.5	1209.9
7.5°	1203.5	1200.9	1195.8	1202.2	1200.9
10°	1192.0	1189.4	1184.3	1191.3	1188.2
12.5°	1177.3	1174.7	1169.0	1175.4	1172.8
15°	1158.8	1156.8	1149.8	1156.2	1151.7
17.5°	1136.4	1133.2	1128.1	1131.9	1128.7
20°	1111.5	1107.6	1099.3	1103.1	1100.0
22.5°	1081.4	1076.3	1070.6	1070.6	1066.1
25°	1047.5	1043.7	1034.8	1032.8	1027.7
27.5°	1011.1	1007.9	996.4	993.2	984.3
30°	970.2	965.7	953.6	943.4	935.7
32.5°	924.8	921.6	905.0	891.6	880.7
35°	880.1	872.4	854.5	835.4	826.4
37.5°	827.7	821.9	799.6	775.9	763.8
40°	775.3	768.2	742.0	715.8	703.0
42.5°	718.4	712.0	687.1	655.8	642.3
45°	667.3	657.0	627.0	593.1	580.3
47.5°	611.0	600.1	568.2	532.4	517.7
50°	551.6	544.5	511.3	476.8	465.9
52.5°	498.5	487.7	456.3	422.5	411.0
55°	448.0	437.8	404.6	372.6	362.4
57.5°	397.5	386.0	357.3	328.5	318.3
60°	350.2	338.7	310.6	287.0	280.6
62.5°	307.4	294.6	269.7	251.2	246.7
65°	264.0	255.7	233.9	220.5	217.9
67.5°	227.5	217.3	200.0	193.7	192.4
70°	194.3	187.3	172.6	170.6	170.6
72.5°	164.3	158.5	147.6	148.9	150.8
75°	137.4	133.6	127.2	129.7	133.6
77.5°	114.4	110.6	106.7	110.6	113.1
80°	92.7	88.8	88.2	91.4	93.3
82.5°	69.7	66.5	67.1	72.2	74.1
85°	48.6	46.7	45.4	51.1	51.8
87.5°	24.9	23.6	23.0	27.5	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)