

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: P290807

Luminaire Tested: **14GR-LD5-28-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290807
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-L82765-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: 2720.0 lumens
Efficiency: N/A
Efficacy: 123.4 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

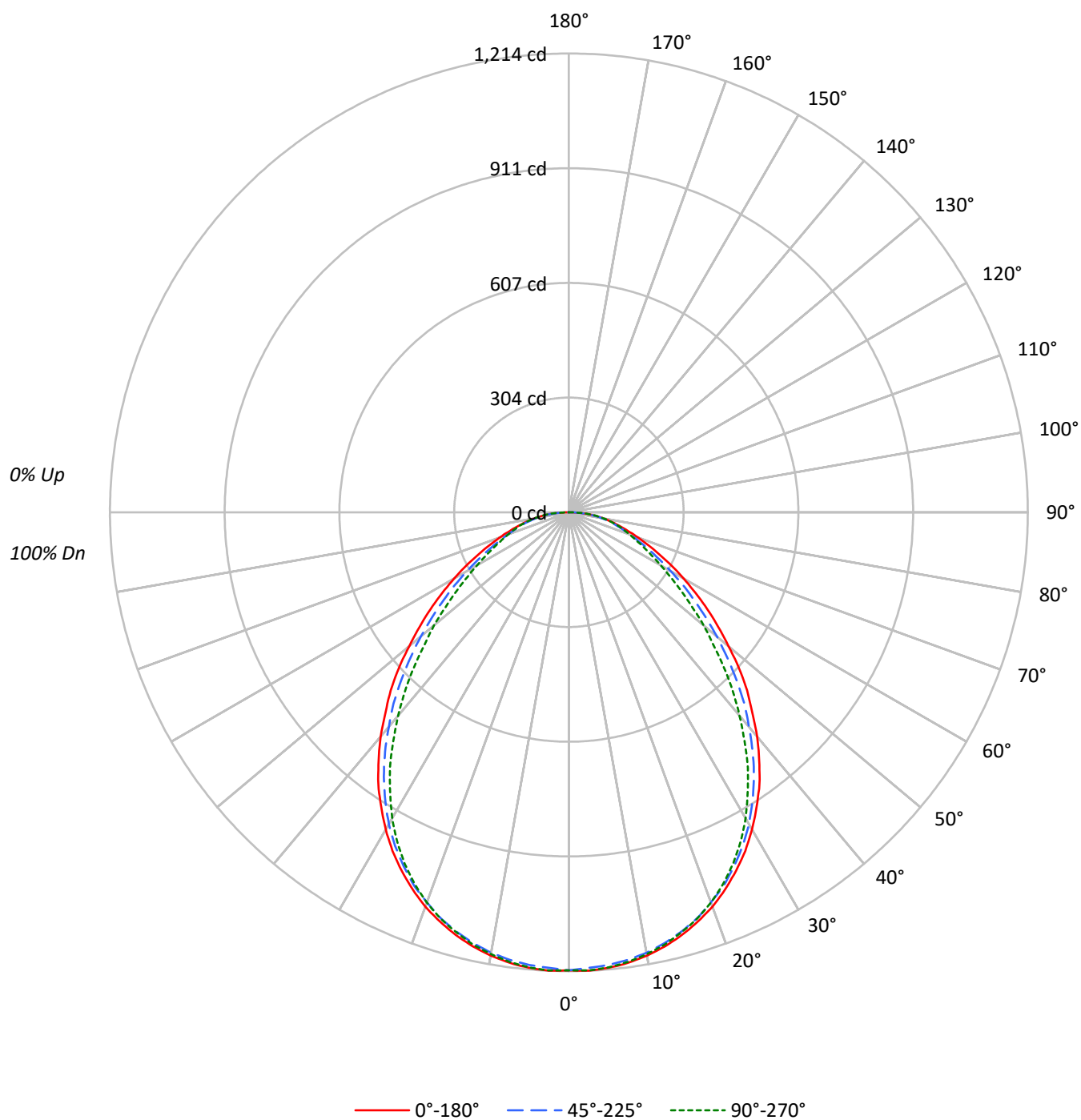
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		85
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		73
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		55
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		48
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		43
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		38
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		34
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		31
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3261	3261	3261
5°	3268	3247	3265
10°	3254	3233	3243
15°	3225	3200	3205
20°	3179	3145	3146
25°	3107	3069	3048
30°	3011	2960	2904
35°	2888	2804	2712
40°	2720	2604	2467
45°	2536	2383	2206
50°	2307	2138	1948
55°	2099	1896	1698
60°	1883	1670	1509
65°	1679	1488	1386
70°	1527	1356	1341
75°	1428	1320	1387
80°	1435	1365	1444
85°	1497	1399	1596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	4.2
10°-20°	324.8	11.9
20°-30°	476.3	17.5
30°-40°	531.6	19.5
40°-50°	481.3	17.7
50°-60°	363.4	13.4
60°-70°	237.6	8.7
70°-80°	139.5	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°	915.7	33.7
0°-40°	1447.2	53.2
0°-60°	2291.9	84.3
0°-90°	2720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2720.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1210	1207	1202	1209	1209	115
15°	1158	1156	1148	1155	1150	326
25°	1046	1043	1034	1032	1027	481
35°	879	872	854	834	826	548
45°	666	656	626	592	580	512
55°	448	437	404	372	362	400
65°	264	255	234	220	218	265
75°	137	133	127	130	133	147
85°	48	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°	1211.7	1211.7	1211.7	1211.7	1211.7
2.5°	1213.7	1211.7	1206.0	1213.7	1213.0
5°	1209.8	1207.3	1202.2	1209.2	1208.6
7.5°	1202.2	1199.6	1194.5	1200.9	1199.6
10°	1190.7	1188.1	1183.0	1190.0	1186.8
12.5°	1176.0	1173.4	1167.7	1174.1	1171.5
15°	1157.5	1155.6	1148.5	1154.9	1150.5
17.5°	1135.1	1131.9	1126.8	1130.7	1127.5
20°	1110.2	1106.4	1098.1	1101.9	1098.7
22.5°	1080.2	1075.1	1069.4	1069.4	1064.9
25°	1046.4	1042.6	1033.6	1031.7	1026.6
27.5°	1010.0	1006.8	995.3	992.1	983.2
30°	969.1	964.7	952.5	942.3	934.7
32.5°	923.8	920.6	904.0	890.6	879.8
35°	879.1	871.5	853.6	834.4	825.5
37.5°	826.8	821.0	798.7	775.1	762.9
40°	774.4	767.4	741.2	715.0	702.3
42.5°	717.6	711.2	686.3	655.0	641.6
45°	666.5	656.3	626.3	592.5	579.7
47.5°	610.3	599.5	567.6	531.8	517.1
50°	551.0	543.9	510.7	476.3	465.4
52.5°	498.0	487.1	455.8	422.0	410.5
55°	447.5	437.3	404.1	372.2	362.0
57.5°	397.1	385.6	356.9	328.2	317.9
60°	349.9	338.4	310.3	286.7	280.3
62.5°	307.1	294.3	269.4	250.9	246.4
65°	263.7	255.4	233.7	220.3	217.7
67.5°	227.3	217.1	199.8	193.4	192.2
70°	194.1	187.1	172.4	170.5	170.5
72.5°	164.1	158.3	147.5	148.8	150.7
75°	137.3	133.4	127.0	129.6	133.4
77.5°	114.3	110.4	106.6	110.4	113.0
80°	92.6	88.7	88.1	91.3	93.2
82.5°	69.6	66.4	67.0	72.1	74.1
85°	48.5	46.6	45.3	51.1	51.7
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)