

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: P290915

Luminaire Tested: **14GR-LD5-32-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290915
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-LD5-32-F125-UNV-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2798.0 lumens
Efficiency: N/A
Efficacy: 108.6 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

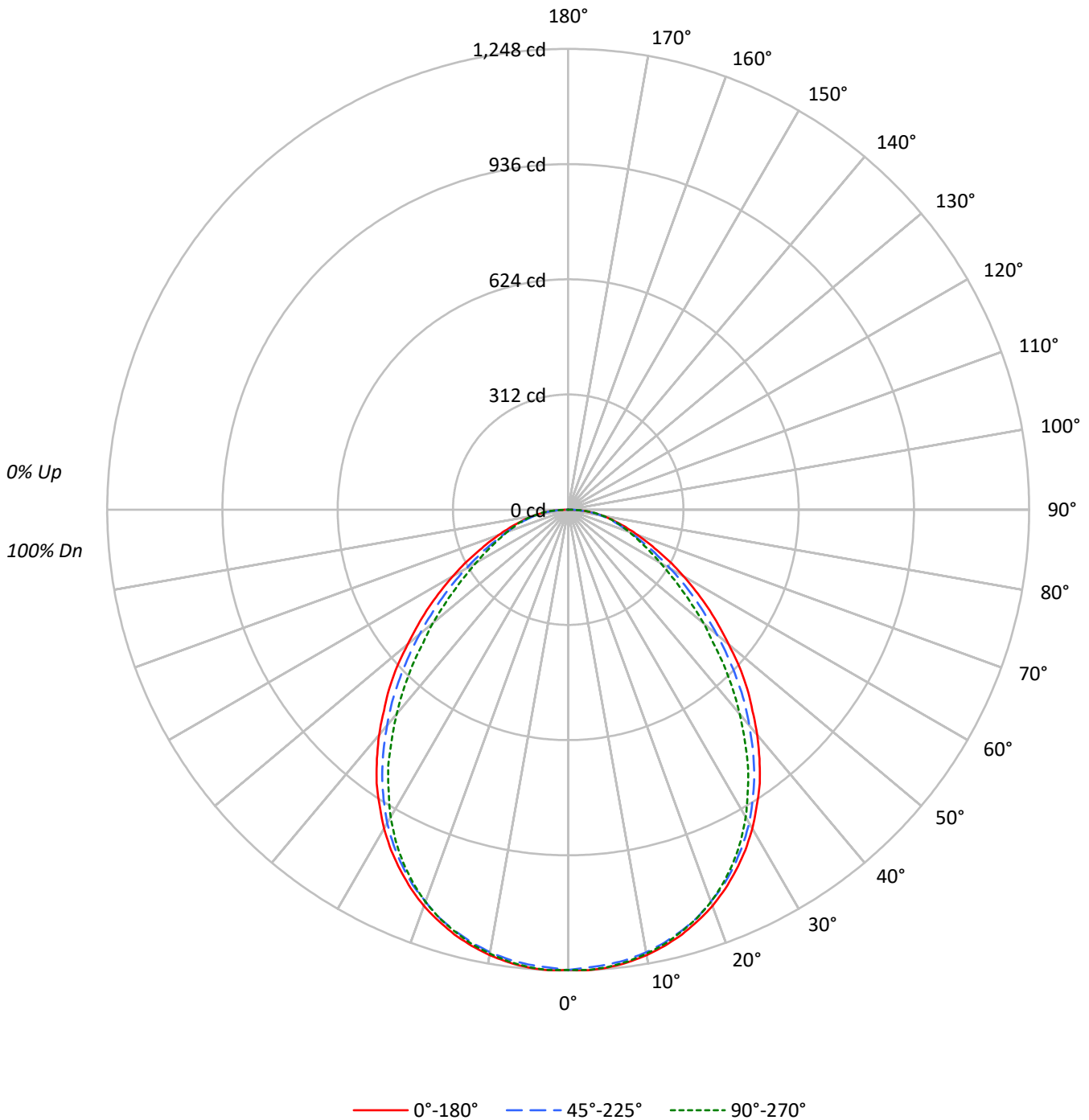
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3354	3354	3354
5°	3362	3340	3358
10°	3347	3325	3336
15°	3317	3292	3297
20°	3271	3235	3237
25°	3196	3157	3135
30°	3098	3045	2988
35°	2971	2885	2790
40°	2798	2679	2538
45°	2609	2452	2269
50°	2373	2200	2004
55°	2160	1950	1747
60°	1937	1718	1552
65°	1727	1531	1426
70°	1570	1395	1379
75°	1468	1359	1428
80°	1475	1404	1486
85°	1541	1439	1643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	4.2
10°-20°	334.1	11.9
20°-30°	489.9	17.5
30°-40°	546.8	19.5
40°-50°	495.1	17.7
50°-60°	373.8	13.4
60°-70°	244.4	8.7
70°-80°	143.5	5.1
80°-90°	52.5	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°	941.9	33.7
0°-40°	1488.7	53.2
0°-60°	2357.6	84.3
0°-90°	2798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1244	1242	1237	1244	1243	118
15°	1191	1189	1182	1188	1183	336
25°	1076	1072	1063	1061	1056	495
35°	904	896	878	858	849	563
45°	686	675	644	610	596	527
55°	460	450	416	383	372	412
65°	271	263	240	227	224	272
75°	141	137	131	133	137	152
85°	50	48	47	52	53	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1248.5	1246.5	1240.6	1248.5	1247.8
5°	1244.5	1241.9	1236.6	1243.9	1243.2
7.5°	1236.6	1234.0	1228.8	1235.3	1234.0
10°	1224.8	1222.2	1216.9	1224.2	1220.9
12.5°	1209.7	1207.1	1201.2	1207.7	1205.1
15°	1190.7	1188.7	1181.5	1188.0	1183.4
17.5°	1167.7	1164.4	1159.1	1163.1	1159.8
20°	1142.1	1138.1	1129.6	1133.5	1130.2
22.5°	1111.2	1105.9	1100.0	1100.0	1095.4
25°	1076.4	1072.5	1063.3	1061.3	1056.0
27.5°	1039.0	1035.7	1023.9	1020.6	1011.4
30°	996.9	992.3	979.9	969.3	961.5
32.5°	950.3	947.0	929.9	916.2	905.0
35°	904.3	896.4	878.1	858.4	849.2
37.5°	850.5	844.6	821.6	797.3	784.8
40°	796.6	789.4	762.5	735.5	722.4
42.5°	738.2	731.6	706.0	673.8	660.0
45°	685.6	675.1	644.3	609.5	596.3
47.5°	627.8	616.7	583.8	547.1	532.0
50°	566.8	559.5	525.4	489.9	478.8
52.5°	512.3	501.1	468.9	434.1	422.3
55°	460.4	449.9	415.7	382.9	372.4
57.5°	408.5	396.7	367.1	337.6	327.1
60°	359.9	348.1	319.2	294.9	288.3
62.5°	315.9	302.8	277.1	258.1	253.5
65°	271.2	262.7	240.4	226.6	223.9
67.5°	233.8	223.3	205.6	199.0	197.7
70°	199.6	192.4	177.3	175.3	175.3
72.5°	168.8	162.9	151.7	153.0	155.0
75°	141.2	137.3	130.7	133.3	137.3
77.5°	117.6	113.6	109.7	113.6	116.2
80°	95.2	91.3	90.6	93.9	95.9
82.5°	71.6	68.3	69.0	74.2	76.2
85°	49.9	47.9	46.6	52.5	53.2
87.5°	25.6	24.3	23.6	28.2	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)