

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: P290914

Luminaire Tested: **14GR-LD5-32-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290914
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2665.0 lumens
Efficiency: N/A
Efficacy: 105.0 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

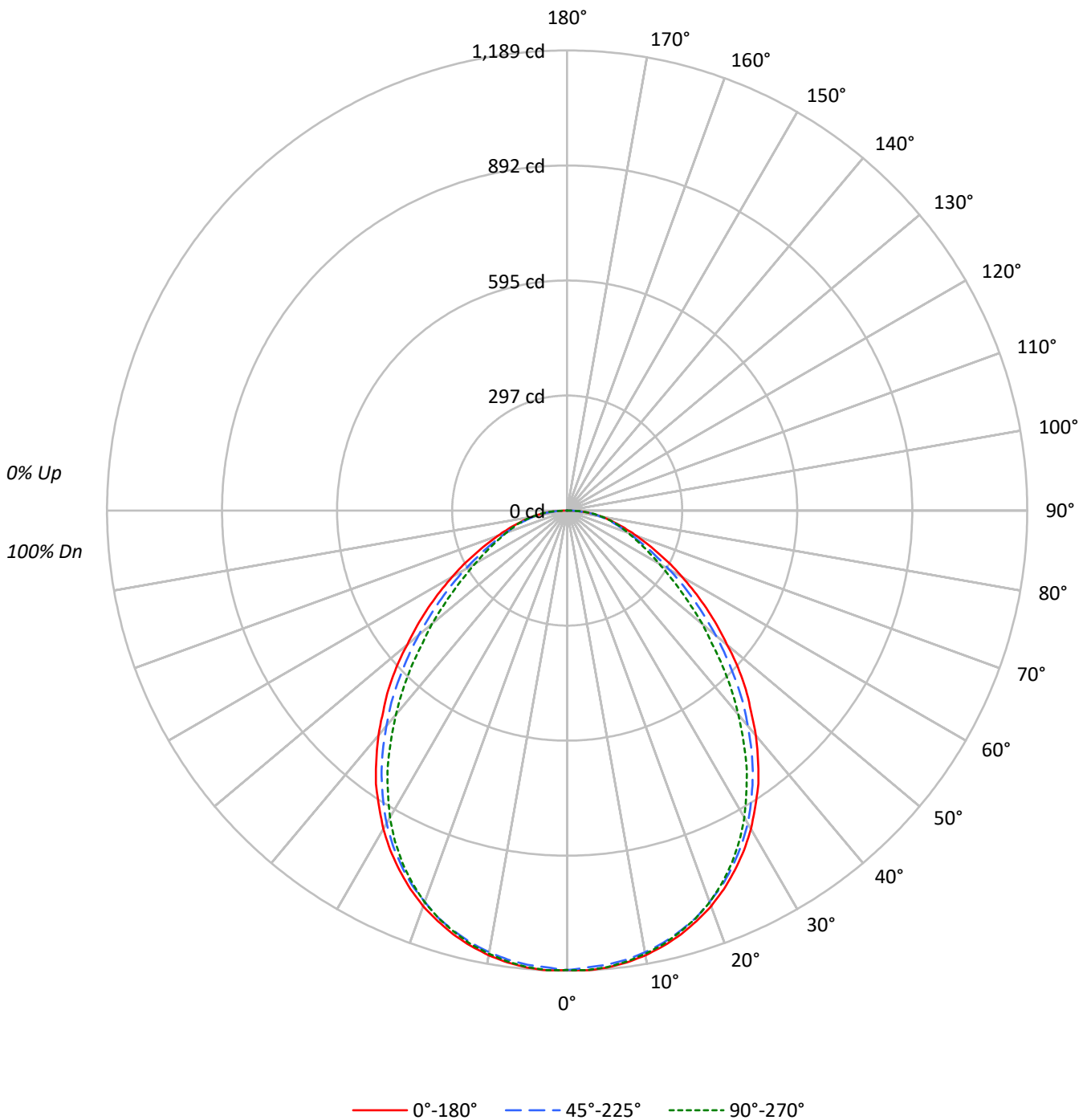
Input Watts (W): 25.389
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3195	3195	3195
5°	3202	3182	3199
10°	3188	3167	3177
15°	3159	3135	3140
20°	3115	3081	3083
25°	3044	3007	2986
30°	2950	2900	2846
35°	2829	2747	2657
40°	2666	2551	2417
45°	2485	2335	2162
50°	2260	2095	1909
55°	2057	1858	1664
60°	1845	1636	1478
65°	1645	1457	1358
70°	1496	1329	1314
75°	1398	1294	1359
80°	1406	1337	1415
85°	1467	1371	1565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	4.2
10°-20°	318.3	11.9
20°-30°	466.6	17.5
30°-40°	520.8	19.5
40°-50°	471.5	17.7
50°-60°	356.0	13.4
60°-70°	232.7	8.7
70°-80°	136.7	5.1
80°-90°	50.0	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°	897.2	33.7
0°-40°	1418.0	53.2
0°-60°	2245.5	84.3
0°-90°	2665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2665.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1185	1183	1178	1185	1184	113
15°	1134	1132	1125	1132	1127	320
25°	1025	1022	1013	1011	1006	472
35°	861	854	836	818	809	536
45°	653	643	614	580	568	502
55°	438	428	396	365	355	392
65°	258	250	229	216	213	259
75°	134	131	124	127	131	144
85°	48	46	44	50	51	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1187.2	1187.2	1187.2	1187.2	1187.2
2.5°	1189.1	1187.2	1181.6	1189.1	1188.5
5°	1185.4	1182.9	1177.9	1184.7	1184.1
7.5°	1177.9	1175.4	1170.4	1176.6	1175.4
10°	1166.6	1164.1	1159.1	1166.0	1162.8
12.5°	1152.2	1149.7	1144.1	1150.3	1147.8
15°	1134.1	1132.2	1125.3	1131.6	1127.2
17.5°	1112.2	1109.1	1104.0	1107.8	1104.7
20°	1087.8	1084.0	1075.9	1079.7	1076.5
22.5°	1058.4	1053.4	1047.7	1047.7	1043.4
25°	1025.2	1021.5	1012.7	1010.8	1005.8
27.5°	989.6	986.4	975.2	972.1	963.3
30°	949.5	945.2	933.3	923.3	915.8
32.5°	905.1	902.0	885.7	872.6	862.0
35°	861.3	853.8	836.3	817.6	808.8
37.5°	810.1	804.4	782.5	759.4	747.5
40°	758.8	751.9	726.2	700.6	688.1
42.5°	703.1	696.8	672.4	641.8	628.6
45°	653.0	643.0	613.6	580.5	568.0
47.5°	598.0	587.4	556.1	521.1	506.7
50°	539.8	532.9	500.4	466.6	456.0
52.5°	487.9	477.3	446.6	413.5	402.2
55°	438.5	428.5	396.0	364.7	354.7
57.5°	389.1	377.8	349.7	321.5	311.5
60°	342.8	331.5	304.0	280.9	274.6
62.5°	300.9	288.4	264.0	245.8	241.5
65°	258.3	250.2	228.9	215.8	213.3
67.5°	222.7	212.7	195.8	189.5	188.3
70°	190.2	183.3	168.9	167.0	167.0
72.5°	160.8	155.1	144.5	145.7	147.6
75°	134.5	130.7	124.5	127.0	130.7
77.5°	112.0	108.2	104.5	108.2	110.7
80°	90.7	86.9	86.3	89.4	91.3
82.5°	68.2	65.1	65.7	70.7	72.6
85°	47.5	45.7	44.4	50.0	50.7
87.5°	24.4	23.1	22.5	26.9	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)