

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: P290909

Luminaire Tested: **14GR-LD5-28-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290909
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-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2663.0 lumens
Efficiency: N/A
Efficacy: 116.9 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

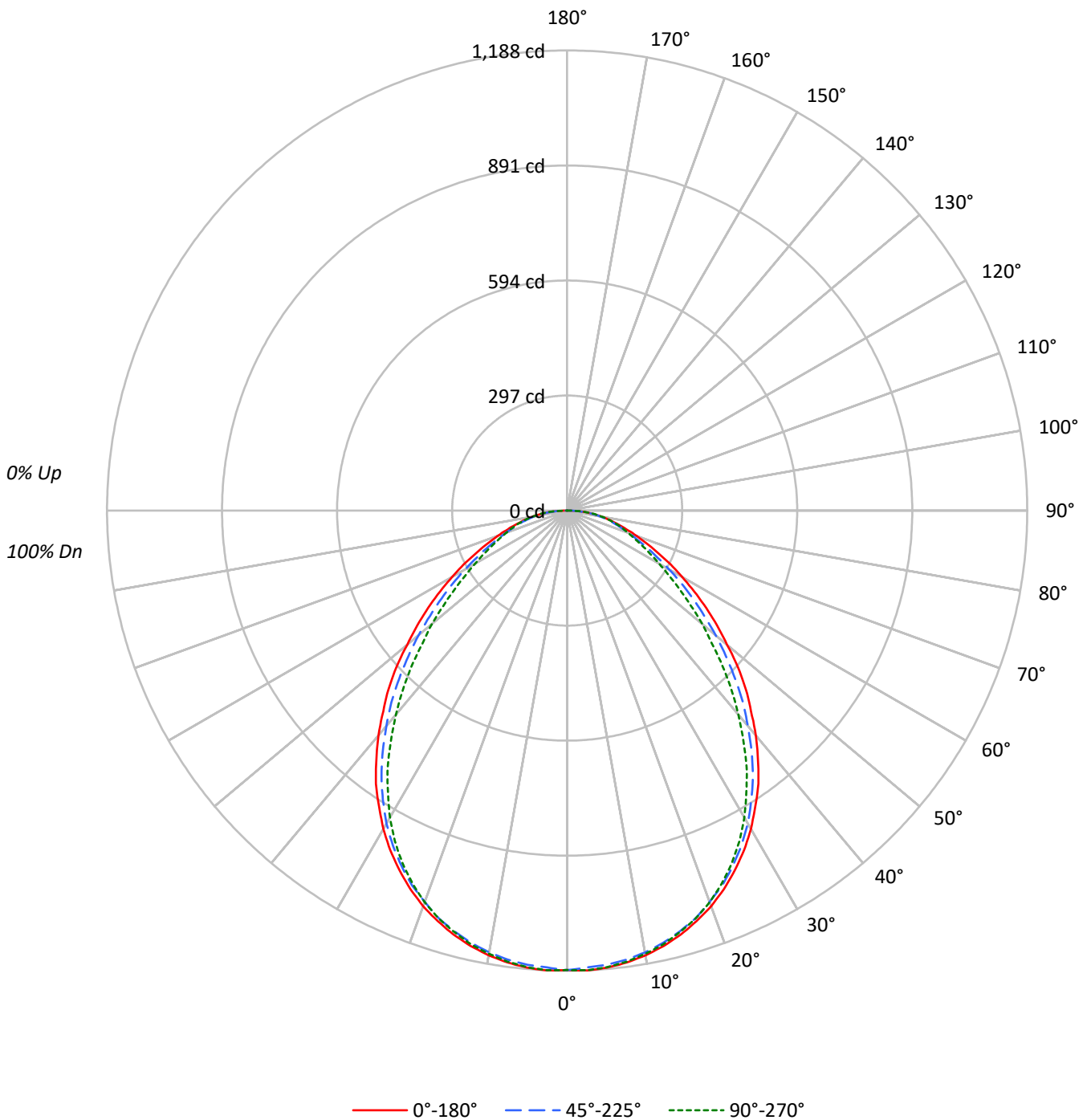
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3192	3192	3192
5°	3200	3179	3196
10°	3185	3165	3175
15°	3157	3133	3138
20°	3113	3079	3080
25°	3042	3005	2984
30°	2948	2898	2843
35°	2827	2745	2655
40°	2663	2549	2415
45°	2484	2334	2160
50°	2258	2093	1908
55°	2056	1856	1663
60°	1843	1635	1477
65°	1643	1457	1357
70°	1495	1328	1313
75°	1397	1293	1358
80°	1404	1337	1415
85°	1467	1371	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	4.2
10°-20°	318.0	11.9
20°-30°	466.3	17.5
30°-40°	520.4	19.5
40°-50°	471.2	17.7
50°-60°	355.8	13.4
60°-70°	232.6	8.7
70°-80°	136.6	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°	896.5	33.7
0°-40°	1416.9	53.2
0°-60°	2243.8	84.3
0°-90°	2663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2663.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1184	1182	1177	1184	1183	112
15°	1133	1131	1124	1131	1126	319
25°	1024	1021	1012	1010	1005	471
35°	861	853	836	817	808	536
45°	653	643	613	580	568	501
55°	438	428	396	364	354	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°	1186.3	1186.3	1186.3	1186.3	1186.3
2.5°	1188.2	1186.3	1180.7	1188.2	1187.6
5°	1184.5	1182.0	1177.0	1183.8	1183.2
7.5°	1177.0	1174.5	1169.5	1175.7	1174.5
10°	1165.7	1163.2	1158.2	1165.1	1162.0
12.5°	1151.3	1148.8	1143.2	1149.5	1147.0
15°	1133.2	1131.3	1124.5	1130.7	1126.3
17.5°	1111.3	1108.2	1103.2	1107.0	1103.8
20°	1087.0	1083.2	1075.1	1078.8	1075.7
22.5°	1057.6	1052.6	1047.0	1047.0	1042.6
25°	1024.5	1020.7	1012.0	1010.1	1005.1
27.5°	988.8	985.7	974.5	971.3	962.6
30°	948.8	944.5	932.6	922.6	915.1
32.5°	904.5	901.3	885.1	871.9	861.3
35°	860.7	853.2	835.7	816.9	808.2
37.5°	809.4	803.8	781.9	758.8	746.9
40°	758.2	751.3	725.7	700.1	687.6
42.5°	702.6	696.3	671.9	641.3	628.2
45°	652.6	642.6	613.2	580.0	567.5
47.5°	597.6	586.9	555.7	520.7	506.3
50°	539.4	532.5	500.0	466.3	455.7
52.5°	487.5	476.9	446.3	413.2	401.9
55°	438.2	428.2	395.7	364.4	354.4
57.5°	388.8	377.5	349.4	321.3	311.3
60°	342.5	331.3	303.8	280.6	274.4
62.5°	300.7	288.1	263.8	245.6	241.3
65°	258.1	250.0	228.8	215.6	213.1
67.5°	222.5	212.5	195.6	189.4	188.1
70°	190.0	183.1	168.8	166.9	166.9
72.5°	160.6	155.0	144.4	145.6	147.5
75°	134.4	130.6	124.4	126.9	130.6
77.5°	111.9	108.1	104.4	108.1	110.6
80°	90.6	86.9	86.3	89.4	91.3
82.5°	68.1	65.0	65.6	70.6	72.5
85°	47.5	45.6	44.4	50.0	50.6
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)