

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: P290863

Luminaire Tested: **14GR-LD5-28-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290863
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-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2645.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

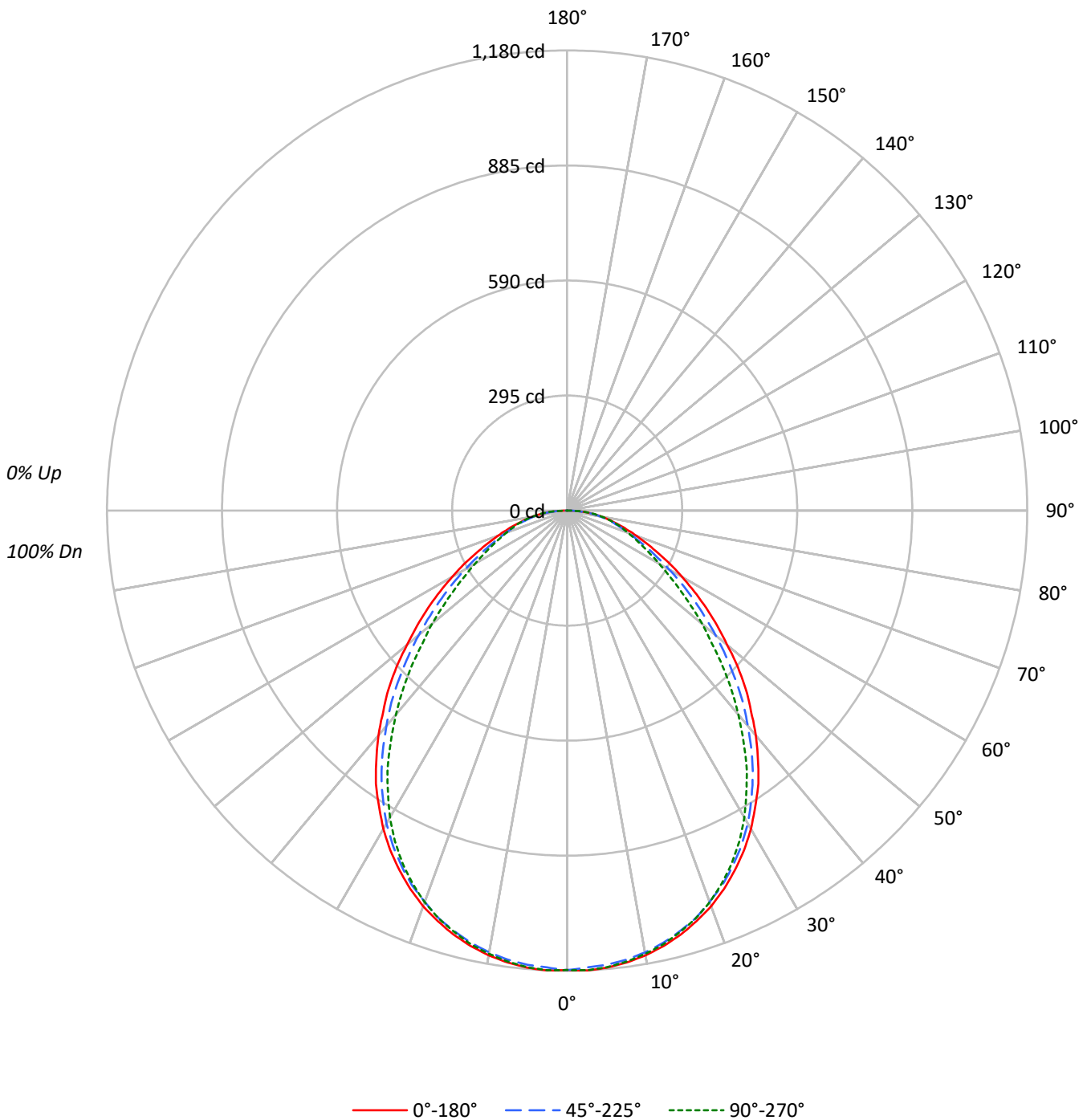
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290863

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P290863

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L93050-W2A1-U-4000K

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°	3171	3171	3171
5°	3178	3158	3175
10°	3164	3143	3154
15°	3136	3112	3117
20°	3092	3058	3060
25°	3021	2984	2964
30°	2928	2878	2824
35°	2808	2727	2637
40°	2646	2532	2399
45°	2466	2318	2145
50°	2243	2079	1895
55°	2042	1844	1651
60°	1831	1624	1467
65°	1633	1447	1348
70°	1485	1319	1304
75°	1388	1284	1350
80°	1395	1328	1404
85°	1457	1362	1553



TEST NUMBER: P290863

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	4.2
10°-20°	315.9	11.9
20°-30°	463.1	17.5
30°-40°	516.9	19.5
40°-50°	468.0	17.7
50°-60°	353.4	13.4
60°-70°	231.0	8.7
70°-80°	135.7	5.1
80°-90°	49.7	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°	890.4	33.7
0°-40°	1407.3	53.2
0°-60°	2228.7	84.3
0°-90°	2645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2645.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1176	1174	1169	1176	1175	112
15°	1126	1124	1117	1123	1119	317
25°	1018	1014	1005	1003	998	468
35°	855	847	830	811	803	532
45°	648	638	609	576	564	498
55°	435	425	393	362	352	389
65°	256	248	227	214	212	257
75°	134	130	124	126	130	143
85°	47	45	44	50	50	50
90°	0	0	0	0	0	



TEST NUMBER: P290863

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1178.3	1178.3	1178.3	1178.3	1178.3
2.5°	1180.2	1178.3	1172.7	1180.2	1179.6
5°	1176.5	1174.0	1169.0	1175.8	1175.2
7.5°	1169.0	1166.5	1161.6	1167.8	1166.5
10°	1157.8	1155.4	1150.4	1157.2	1154.1
12.5°	1143.6	1141.1	1135.5	1141.7	1139.2
15°	1125.6	1123.7	1116.9	1123.1	1118.7
17.5°	1103.8	1100.7	1095.8	1099.5	1096.4
20°	1079.6	1075.9	1067.8	1071.5	1068.4
22.5°	1050.4	1045.5	1039.9	1039.9	1035.5
25°	1017.5	1013.8	1005.1	1003.3	998.3
27.5°	982.1	979.0	967.9	964.8	956.1
30°	942.4	938.1	926.3	916.3	908.9
32.5°	898.3	895.2	879.1	866.1	855.5
35°	854.9	847.4	830.0	811.4	802.7
37.5°	804.0	798.4	776.7	753.7	741.9
40°	753.1	746.2	720.8	695.3	682.9
42.5°	697.8	691.6	667.4	637.0	623.9
45°	648.1	638.2	609.0	576.1	563.7
47.5°	593.5	583.0	551.9	517.1	502.9
50°	535.8	528.9	496.7	463.1	452.6
52.5°	484.2	473.7	443.3	410.4	399.2
55°	435.2	425.3	393.0	361.9	352.0
57.5°	386.2	375.0	347.0	319.1	309.2
60°	340.2	329.0	301.7	278.8	272.5
62.5°	298.6	286.2	262.0	244.0	239.6
65°	256.4	248.3	227.2	214.2	211.7
67.5°	221.0	211.1	194.3	188.1	186.9
70°	188.7	181.9	167.6	165.8	165.8
72.5°	159.6	154.0	143.4	144.7	146.5
75°	133.5	129.8	123.5	126.0	129.8
77.5°	111.1	107.4	103.7	107.4	109.9
80°	90.0	86.3	85.7	88.8	90.6
82.5°	67.7	64.6	65.2	70.2	72.0
85°	47.2	45.3	44.1	49.7	50.3
87.5°	24.2	23.0	22.3	26.7	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)