

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: P290615

Luminaire Tested: **14GR-LD5-28-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-F1-UNV-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2966.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

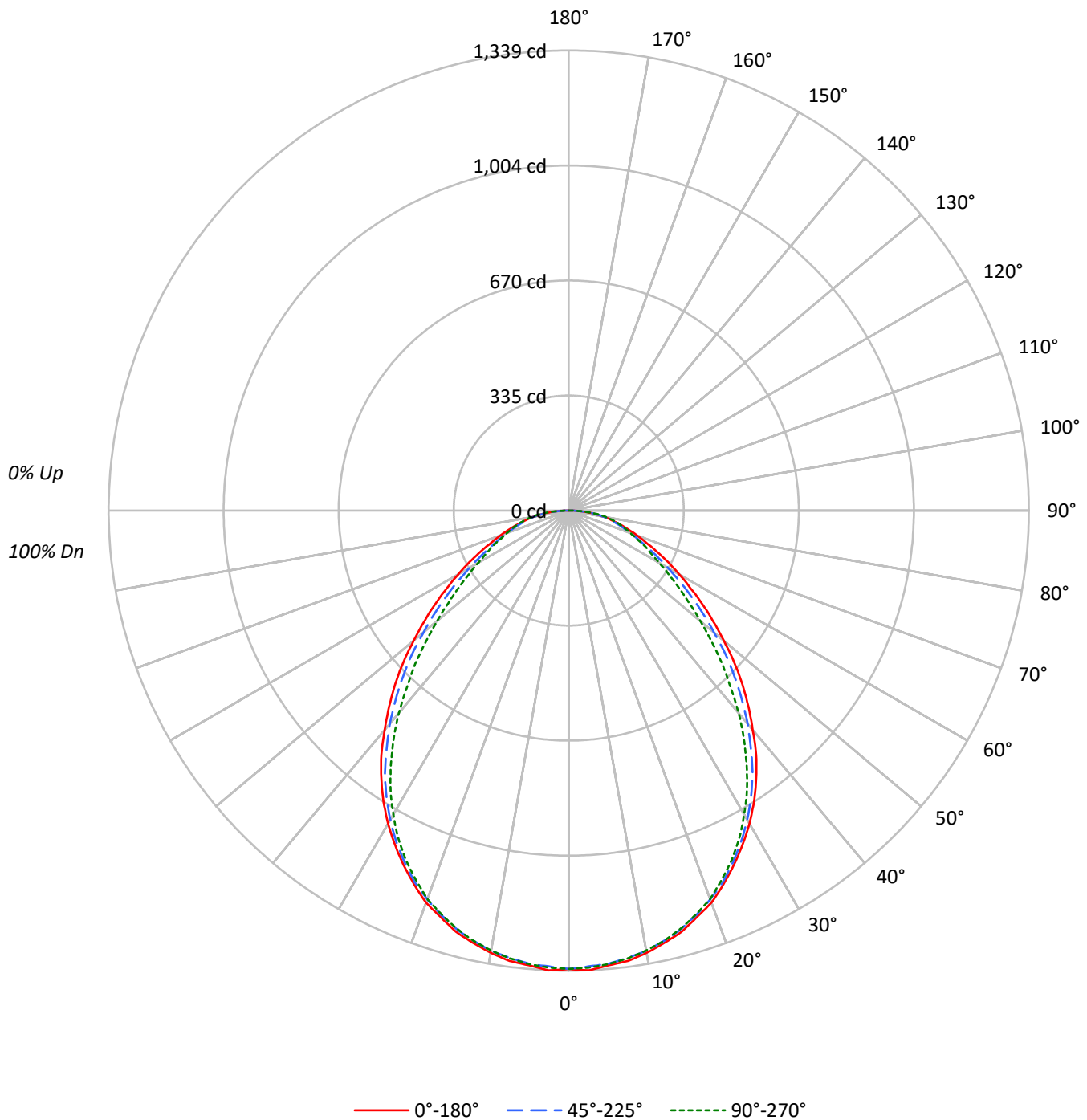
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3589	3589	3589
5°	3588	3576	3578
10°	3571	3554	3552
15°	3534	3513	3508
20°	3477	3448	3444
25°	3377	3355	3331
30°	3268	3228	3173
35°	3124	3064	2964
40°	2925	2844	2703
45°	2717	2595	2406
50°	2465	2311	2095
55°	2229	2041	1831
60°	2002	1790	1632
65°	1796	1598	1563
70°	1659	1487	1503
75°	1583	1492	1576
80°	1601	1592	1717
85°	1658	1636	1825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	4.2
10°-20°	356.0	12.0
20°-30°	519.9	17.5
30°-40°	579.3	19.5
40°-50°	522.0	17.6
50°-60°	390.2	13.2
60°-70°	257.4	8.7
70°-80°	157.1	5.3
80°-90°	58.3	2.0
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°	1001.8	33.8
0°-40°	1581.1	53.3
0°-60°	2493.2	84.1
0°-90°	2966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1328	1327	1324	1330	1324	126
15°	1269	1264	1261	1269	1259	357
25°	1137	1133	1130	1132	1122	524
35°	951	943	933	916	902	593
45°	714	706	682	651	632	549
55°	475	468	435	399	390	426
65°	282	273	251	241	245	283
75°	152	150	144	148	152	163
85°	54	52	53	58	59	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.9	1333.9	1333.9	1333.9	1333.9
2.5°	1339.3	1333.2	1327.8	1335.9	1331.2
5°	1328.4	1327.1	1323.7	1330.5	1324.4
7.5°	1321.6	1316.9	1312.8	1321.0	1314.2
10°	1306.7	1304.0	1300.6	1307.4	1299.9
12.5°	1288.3	1285.6	1282.2	1290.4	1282.2
15°	1268.6	1263.9	1261.1	1268.6	1259.1
17.5°	1240.1	1238.0	1233.9	1241.4	1231.9
20°	1214.2	1206.8	1204.0	1209.5	1202.7
22.5°	1176.8	1171.4	1170.7	1174.1	1162.6
25°	1137.4	1133.3	1129.9	1132.0	1121.8
27.5°	1095.9	1090.5	1086.4	1085.7	1074.9
30°	1051.7	1044.9	1038.8	1033.4	1021.1
32.5°	1003.5	995.3	987.2	978.3	965.4
35°	951.1	943.0	932.8	916.5	902.2
37.5°	896.1	886.5	870.2	851.2	836.9
40°	832.8	828.1	809.7	785.2	769.6
42.5°	773.7	768.2	745.1	717.9	696.9
45°	713.9	706.4	681.9	650.6	632.3
47.5°	652.7	645.2	618.0	579.2	562.9
50°	588.8	584.7	552.0	516.7	500.4
52.5°	530.3	525.5	492.2	456.9	441.9
55°	475.2	467.7	435.1	399.1	390.2
57.5°	420.2	412.0	381.4	350.8	344.7
60°	371.9	361.7	332.5	308.7	303.2
62.5°	326.3	314.8	290.3	271.9	269.2
65°	282.1	273.3	250.9	240.7	245.4
67.5°	244.1	235.2	218.9	214.8	213.5
70°	210.8	202.6	189.0	190.4	191.0
72.5°	180.2	175.4	165.2	168.6	171.3
75°	152.3	149.6	143.5	148.2	151.6
77.5°	127.1	125.1	122.4	126.5	131.9
80°	103.3	102.0	102.7	105.4	110.8
82.5°	79.5	76.8	78.9	84.3	87.7
85°	53.7	51.7	53.0	58.5	59.1
87.5°	25.2	25.2	24.5	28.6	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)