

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: P291002

Luminaire Tested: **14GR-LD5-28-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-A-UNV-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2672.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

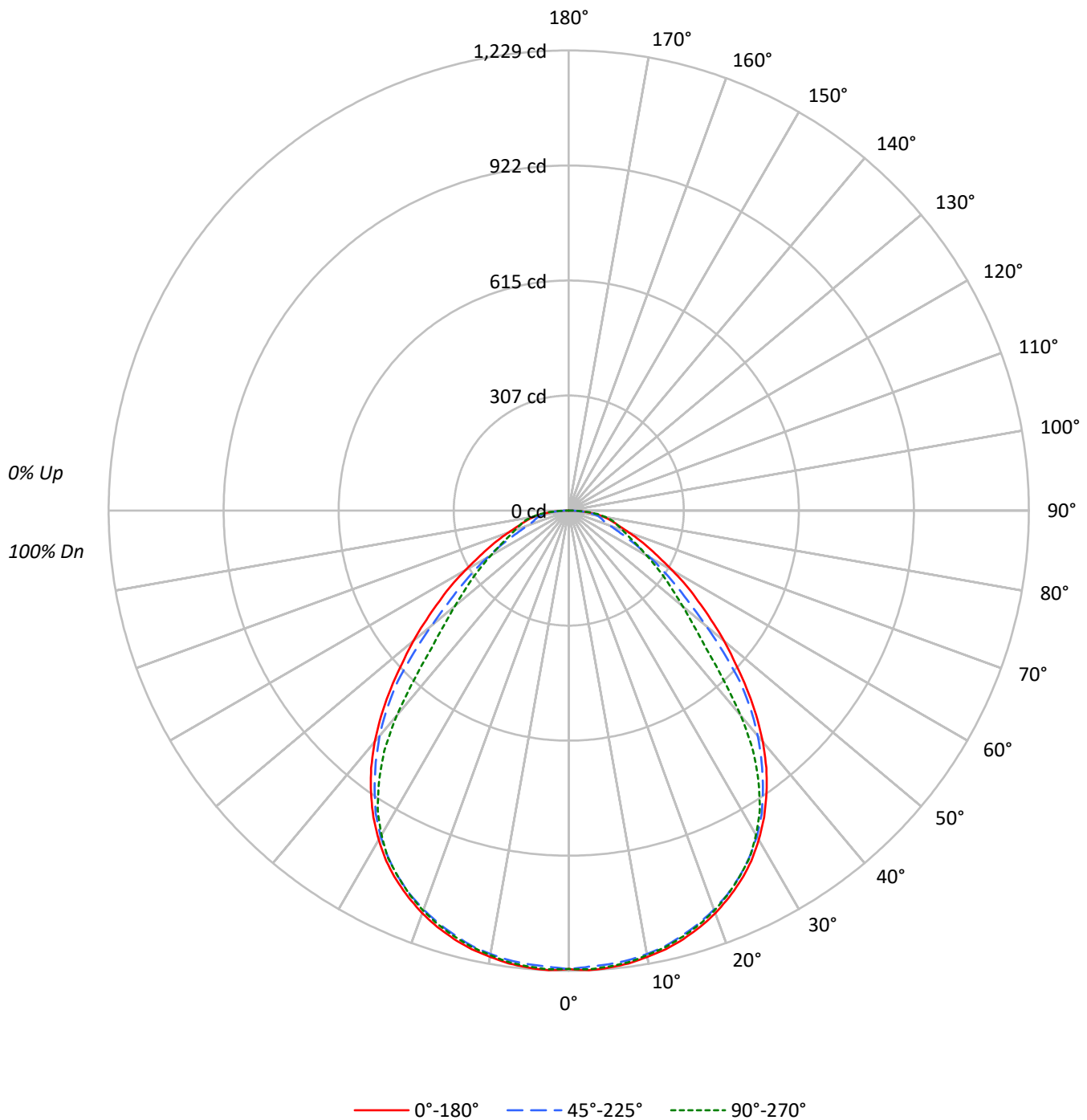
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		86
2	101	94	88	83	99	92	86	82	88	84	80		85	81	78		74
3	93	84	76	71	91	82	75	70	79	74	69		77	72	68		64
4	86	75	67	61	84	74	67	61	72	65	60		69	64	59		56
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		50
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		44
7	69	57	48	43	67	56	48	43	54	47	42		53	47	42		40
8	65	52	44	38	63	51	44	38	50	43	38		49	43	38		36
9	61	48	40	35	59	47	40	35	46	39	35		45	39	35		33
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3295	3295	3295
5°	3311	3286	3303
10°	3307	3286	3295
15°	3300	3271	3282
20°	3277	3247	3256
25°	3234	3203	3204
30°	3155	3122	3109
35°	3026	2970	2903
40°	2832	2760	2511
45°	2558	2461	1963
50°	2268	1998	1660
55°	1980	1639	1465
60°	1717	1349	1293
65°	1505	1082	1193
70°	1343	918	1201
75°	1310	968	1342
80°	1452	1221	1539
85°	1513	1303	1800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	4.3
10°-20°	332.8	12.5
20°-30°	497.8	18.6
30°-40°	562.0	21.0
40°-50°	476.8	17.8
50°-60°	322.6	12.1
60°-70°	192.5	7.2
70°-80°	120.6	4.5
80°-90°	50.7	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°	946.8	35.4
0°-40°	1508.8	56.5
0°-60°	2308.1	86.4
0°-90°	2672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1226	1222	1216	1225	1223	117
15°	1185	1182	1174	1182	1178	334
25°	1089	1085	1079	1084	1079	501
35°	921	915	904	896	884	574
45°	672	675	647	554	516	518
55°	422	402	349	313	312	380
65°	236	196	170	181	187	236
75°	126	112	93	123	129	135
85°	49	46	42	55	58	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1224.4	1224.4	1224.4	1224.4	1224.4
2.5°	1228.8	1225.0	1219.5	1226.9	1226.3
5°	1225.7	1221.9	1216.4	1225.0	1222.6
7.5°	1220.1	1217.0	1211.4	1219.5	1217.0
10°	1210.2	1207.7	1202.7	1209.5	1205.8
12.5°	1199.6	1197.7	1191.5	1197.7	1194.0
15°	1184.7	1182.2	1174.2	1182.2	1177.9
17.5°	1166.1	1163.0	1156.2	1163.0	1159.3
20°	1144.4	1140.6	1133.8	1140.6	1136.9
22.5°	1118.3	1115.2	1109.0	1115.2	1110.2
25°	1089.1	1085.4	1078.6	1083.6	1079.2
27.5°	1055.6	1050.7	1044.5	1048.2	1045.7
30°	1015.3	1009.1	1004.7	1004.7	1000.4
32.5°	971.2	966.9	959.4	955.1	949.5
35°	921.0	914.8	904.2	896.1	883.7
37.5°	867.0	859.5	846.5	826.0	809.3
40°	806.1	796.8	785.7	745.3	714.9
42.5°	741.0	739.1	719.9	651.0	608.8
45°	672.1	674.6	646.7	554.2	515.7
47.5°	602.6	611.3	560.4	469.8	449.9
50°	541.8	544.9	477.2	407.7	396.6
52.5°	479.1	474.1	407.1	358.7	350.6
55°	422.0	402.1	349.4	312.8	312.2
57.5°	371.7	335.1	298.5	271.2	274.3
60°	319.0	278.0	250.7	235.8	240.2
62.5°	272.4	233.3	209.1	204.8	212.2
65°	236.4	196.1	170.0	181.2	187.4
67.5°	202.3	168.2	138.4	165.1	167.6
70°	170.7	145.8	116.7	152.0	152.7
72.5°	144.6	129.1	101.2	137.8	139.6
75°	126.0	112.3	93.1	122.9	129.1
77.5°	110.5	96.2	86.3	106.1	116.7
80°	93.7	77.6	78.8	88.7	99.3
82.5°	72.0	60.2	62.7	73.2	80.7
85°	49.0	46.5	42.2	54.6	58.3
87.5°	26.1	24.8	21.7	31.0	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)