

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: P291001

Luminaire Tested: **14GR-LD5-24-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291001
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-LD5-24-A-UNV-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2549.0 lumens
Efficiency: N/A
Efficacy: 133.7 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

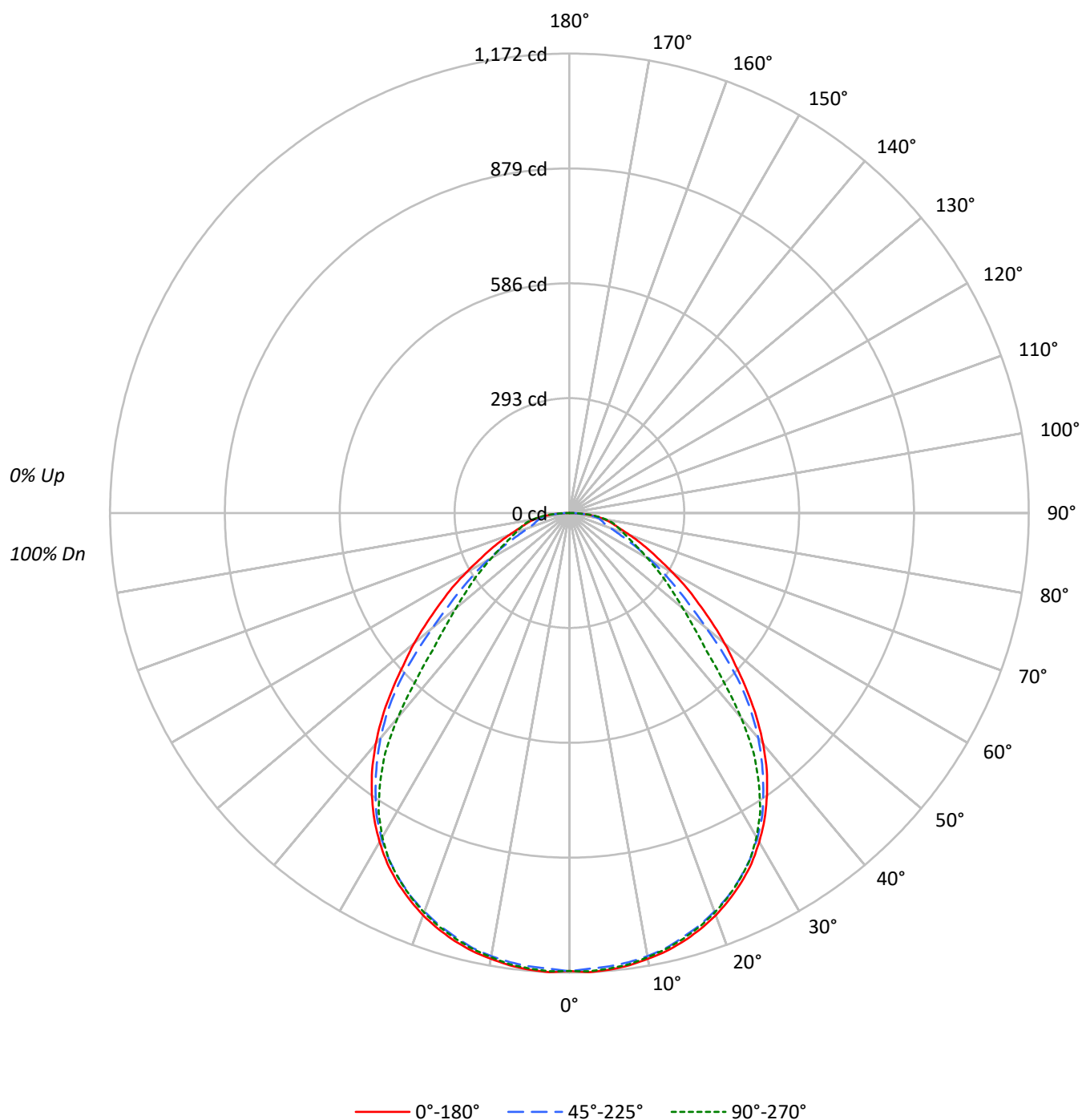
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3143	3143	3143
5°	3158	3135	3150
10°	3154	3135	3143
15°	3149	3120	3131
20°	3126	3097	3106
25°	3085	3055	3057
30°	3010	2978	2965
35°	2886	2834	2769
40°	2701	2633	2396
45°	2440	2348	1872
50°	2164	1906	1584
55°	1889	1564	1397
60°	1638	1287	1233
65°	1436	1033	1138
70°	1281	876	1146
75°	1250	923	1280
80°	1385	1165	1468
85°	1445	1244	1720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	4.3
10°-20°	317.5	12.5
20°-30°	474.9	18.6
30°-40°	536.1	21.0
40°-50°	454.8	17.8
50°-60°	307.7	12.1
60°-70°	183.7	7.2
70°-80°	115.0	4.5
80°-90°	48.4	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°	903.2	35.4
0°-40°	1439.3	56.5
0°-60°	2201.9	86.4
0°-90°	2549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1169	1166	1160	1169	1166	111
15°	1130	1128	1120	1128	1124	319
25°	1039	1036	1029	1034	1030	478
35°	879	873	863	855	843	547
45°	641	644	617	529	492	494
55°	403	384	333	298	298	363
65°	226	187	162	173	179	225
75°	120	107	89	117	123	129
85°	47	44	40	52	56	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1168.1	1168.1	1168.1	1168.1	1168.1
2.5°	1172.2	1168.7	1163.3	1170.4	1169.8
5°	1169.2	1165.7	1160.4	1168.7	1166.3
7.5°	1163.9	1161.0	1155.6	1163.3	1161.0
10°	1154.4	1152.1	1147.3	1153.9	1150.3
12.5°	1144.4	1142.6	1136.7	1142.6	1139.1
15°	1130.2	1127.8	1120.1	1127.8	1123.7
17.5°	1112.4	1109.5	1102.9	1109.5	1105.9
20°	1091.7	1088.1	1081.6	1088.1	1084.6
22.5°	1066.8	1063.9	1057.9	1063.9	1059.1
25°	1039.0	1035.5	1028.9	1033.7	1029.5
27.5°	1007.0	1002.3	996.4	999.9	997.6
30°	968.6	962.6	958.5	958.5	954.3
32.5°	926.5	922.4	915.3	911.1	905.8
35°	878.6	872.6	862.6	854.9	843.0
37.5°	827.1	820.0	807.5	788.0	772.0
40°	769.0	760.2	749.5	711.0	682.0
42.5°	706.9	705.1	686.7	621.0	580.8
45°	641.2	643.5	616.9	528.7	492.0
47.5°	574.9	583.1	534.6	448.2	429.2
50°	516.8	519.8	455.3	389.0	378.3
52.5°	457.0	452.3	388.4	342.2	334.5
55°	402.6	383.6	333.3	298.4	297.8
57.5°	354.6	319.7	284.8	258.7	261.7
60°	304.3	265.2	239.2	225.0	229.1
62.5°	259.9	222.6	199.5	195.4	202.5
65°	225.6	187.1	162.2	172.9	178.8
67.5°	193.0	160.4	132.0	157.5	159.8
70°	162.8	139.1	111.3	145.0	145.6
72.5°	137.9	123.1	96.5	131.4	133.2
75°	120.2	107.2	88.8	117.2	123.1
77.5°	105.4	91.8	82.3	101.2	111.3
80°	89.4	74.0	75.2	84.7	94.7
82.5°	68.7	57.4	59.8	69.9	77.0
85°	46.8	44.4	40.3	52.1	55.7
87.5°	24.9	23.7	20.7	29.6	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)