

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: P291392

Luminaire Tested: **14GR-LD5-24-A19/156-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A19/156-UNV-L82765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2446.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

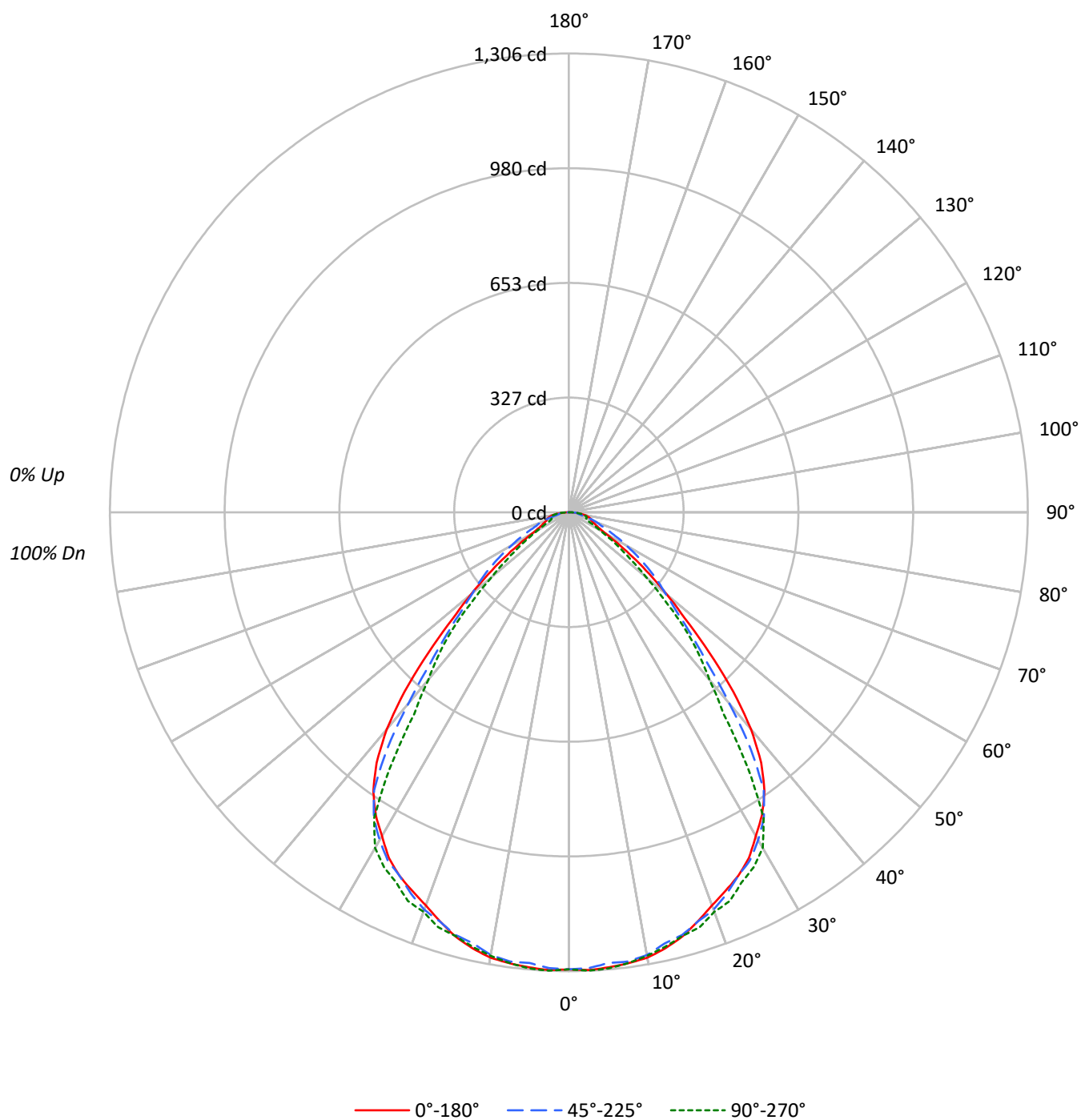
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	100	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	86	100	94	89	85	91	87	83		88	84	81		85
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		77
4	89	79	71	65	87	77	70	65	75	69	64		73	68	63		71
5	83	71	64	58	81	70	63	58	68	62	57		67	61	57		65
6	77	65	58	52	75	64	57	52	63	56	51		61	55	51		60
7	72	60	52	47	70	59	52	47	58	51	46		56	51	46		55
8	67	55	48	43	66	55	47	42	53	47	42		52	46	42		51
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48
10	60	48	40	36	58	47	40	36	46	40	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3500	3500	3500
5°	3512	3479	3519
10°	3517	3496	3502
15°	3482	3469	3477
20°	3409	3446	3465
25°	3388	3387	3451
30°	3306	3346	3427
35°	3188	3175	2917
40°	2830	2498	2187
45°	2148	1869	1768
50°	1523	1495	1200
55°	1043	1277	825
60°	645	1019	552
65°	531	784	399
70°	529	683	410
75°	634	489	547
80°	728	451	685
85°	692	797	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	5.0
10°-20°	352.2	14.4
20°-30°	529.7	21.7
30°-40°	577.5	23.6
40°-50°	404.4	16.5
50°-60°	228.9	9.4
60°-70°	125.2	5.1
70°-80°	75.9	3.1
80°-90°	28.8	1.2
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°	1005.4	41.1
0°-40°	1582.8	64.7
0°-60°	2216.1	90.6
0°-90°	2446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1300	1298	1288	1303	1303	124
15°	1250	1246	1245	1263	1248	351
25°	1141	1143	1141	1167	1162	524
35°	970	966	966	917	888	598
45°	564	589	491	485	465	438
55°	222	266	272	270	176	203
65°	83	137	123	156	63	86
75°	61	88	47	92	53	63
85°	22	36	26	31	25	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1300.7	1300.7	1300.7	1300.7	1300.7
2.5°	1304.0	1302.4	1298.4	1306.3	1305.7
5°	1300.1	1297.9	1287.8	1302.9	1302.9
7.5°	1294.5	1288.9	1289.5	1297.9	1294.0
10°	1287.2	1277.7	1279.4	1281.7	1281.7
12.5°	1270.5	1261.5	1257.0	1264.3	1266.5
15°	1249.7	1246.4	1245.3	1263.2	1248.1
17.5°	1220.6	1227.9	1221.2	1235.7	1238.0
20°	1190.4	1204.4	1203.3	1213.3	1210.0
22.5°	1165.7	1174.7	1174.7	1187.0	1197.1
25°	1141.1	1143.4	1140.6	1166.9	1162.4
27.5°	1109.2	1107.5	1116.5	1129.9	1138.9
30°	1063.8	1064.4	1076.7	1094.6	1103.0
32.5°	1022.4	1017.4	1032.5	1040.3	1031.4
35°	970.3	965.9	966.4	917.1	888.0
37.5°	899.2	903.1	851.6	761.5	723.4
40°	805.7	813.6	711.1	643.9	622.6
42.5°	692.6	694.9	582.9	561.0	547.0
45°	564.4	589.0	491.0	484.9	464.7
47.5°	447.4	493.3	411.5	415.5	367.3
50°	363.9	409.9	357.2	358.9	286.7
52.5°	287.8	332.6	315.2	310.2	225.1
55°	222.3	266.0	272.1	269.9	175.8
57.5°	163.5	210.5	228.4	236.8	135.5
60°	119.8	171.9	189.3	206.0	102.5
62.5°	95.2	148.9	155.1	179.7	79.5
65°	83.4	137.2	123.2	155.7	62.7
67.5°	74.5	130.5	100.2	137.7	54.9
70°	67.2	117.6	86.8	123.2	52.1
72.5°	67.2	103.0	68.3	109.2	52.6
75°	61.0	87.9	47.0	92.4	52.6
77.5°	54.3	75.0	35.3	75.0	49.3
80°	47.0	58.8	29.1	57.7	44.2
82.5°	34.7	44.2	25.2	43.1	35.8
85°	22.4	36.4	25.8	31.4	25.2
87.5°	10.6	18.5	16.2	15.7	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)