

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: P291390

Luminaire Tested: **14GR-LD5-24-A19/156-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291390
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2416.0 lumens
Efficiency: N/A
Efficacy: 129.2 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

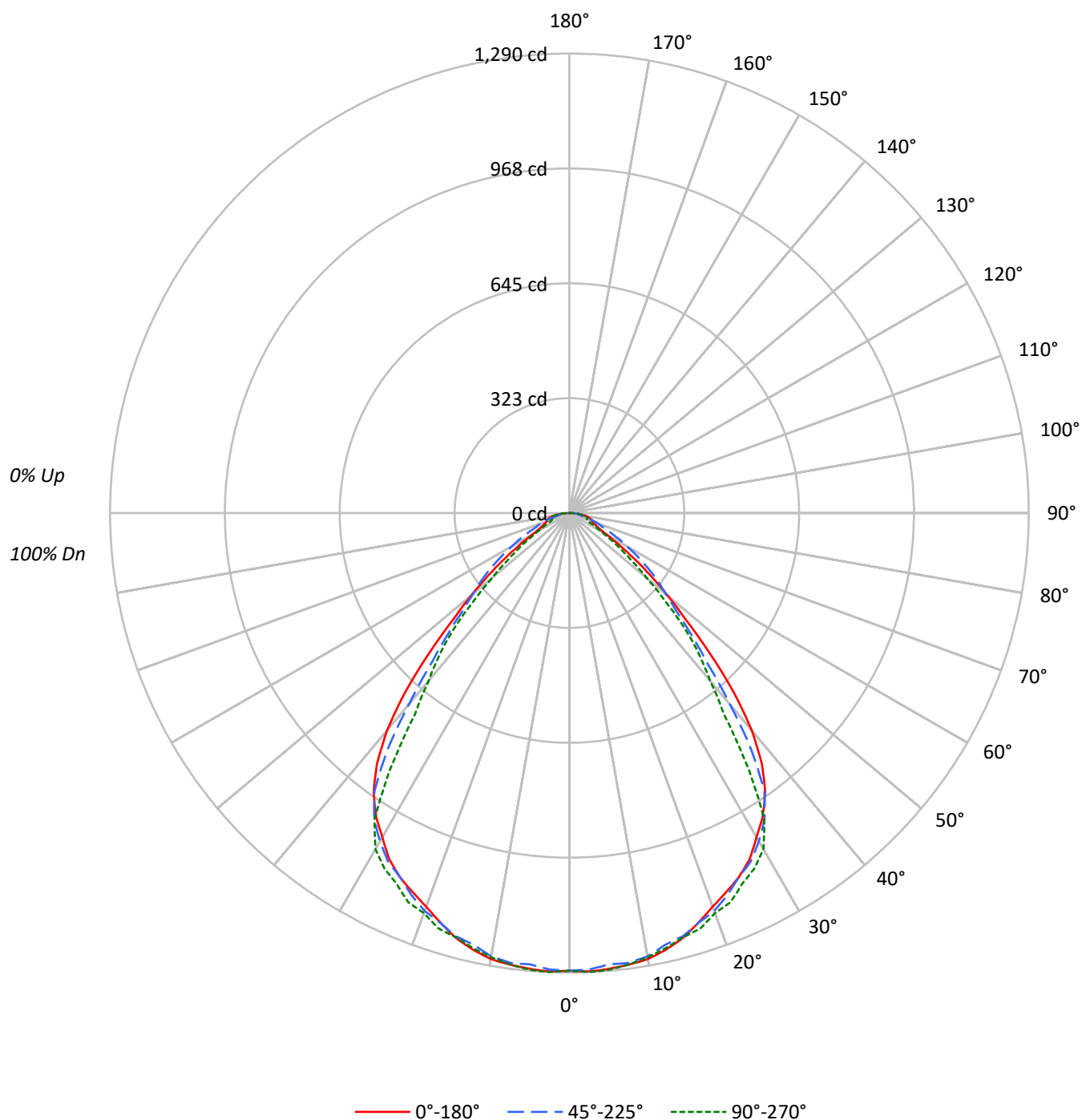
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3457	3457	3457
5°	3469	3436	3476
10°	3474	3453	3459
15°	3439	3427	3434
20°	3367	3403	3422
25°	3347	3345	3409
30°	3265	3305	3385
35°	3148	3136	2881
40°	2796	2467	2160
45°	2122	1846	1747
50°	1505	1477	1186
55°	1030	1261	815
60°	637	1006	545
65°	525	775	394
70°	522	674	404
75°	627	483	541
80°	721	446	677
85°	682	784	769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	5.0
10°-20°	347.9	14.4
20°-30°	523.2	21.7
30°-40°	570.4	23.6
40°-50°	399.4	16.5
50°-60°	226.1	9.4
60°-70°	123.7	5.1
70°-80°	75.0	3.1
80°-90°	28.4	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°	993.0	41.1
0°-40°	1563.4	64.7
0°-60°	2188.9	90.6
0°-90°	2416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1285	1285	1285	1285	1285	
5°	1284	1282	1272	1287	1287	122
15°	1234	1231	1230	1248	1233	347
25°	1127	1129	1127	1153	1148	518
35°	958	954	955	906	877	591
45°	558	582	485	479	459	433
55°	220	263	269	267	174	201
65°	82	136	122	154	62	85
75°	60	87	46	91	52	63
85°	22	36	25	31	25	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1284.7	1284.7	1284.7	1284.7	1284.7
2.5°	1288.1	1286.4	1282.5	1290.3	1289.7
5°	1284.2	1282.0	1272.0	1286.9	1286.9
7.5°	1278.7	1273.1	1273.7	1282.0	1278.1
10°	1271.5	1262.1	1263.7	1265.9	1265.9
12.5°	1254.9	1246.0	1241.6	1248.8	1251.0
15°	1234.4	1231.1	1230.0	1247.7	1232.7
17.5°	1205.6	1212.8	1206.2	1220.6	1222.8
20°	1175.8	1189.6	1188.5	1198.5	1195.1
22.5°	1151.4	1160.3	1160.3	1172.5	1182.4
25°	1127.1	1129.3	1126.6	1152.6	1148.1
27.5°	1095.6	1093.9	1102.8	1116.1	1124.9
30°	1050.8	1051.3	1063.5	1081.2	1089.5
32.5°	1009.9	1004.9	1019.8	1027.6	1018.7
35°	958.4	954.0	954.6	905.9	877.1
37.5°	888.2	892.1	841.2	752.1	714.5
40°	795.8	803.6	702.4	636.0	615.0
42.5°	684.1	686.3	575.7	554.2	540.3
45°	557.5	581.8	485.0	478.9	459.0
47.5°	441.9	487.2	406.5	410.4	362.8
50°	359.5	404.8	352.8	354.5	283.2
52.5°	284.3	328.5	311.4	306.4	222.3
55°	219.6	262.7	268.8	266.6	173.7
57.5°	161.5	207.9	225.6	233.9	133.8
60°	118.4	169.8	186.9	203.5	101.2
62.5°	94.0	147.1	153.2	177.5	78.5
65°	82.4	135.5	121.7	153.7	61.9
67.5°	73.6	128.9	99.0	136.1	54.2
70°	66.4	116.1	85.7	121.7	51.4
72.5°	66.4	101.8	67.5	107.8	52.0
75°	60.3	86.8	46.5	91.3	52.0
77.5°	53.6	74.1	34.8	74.1	48.7
80°	46.5	58.1	28.8	57.0	43.7
82.5°	34.3	43.7	24.9	42.6	35.4
85°	22.1	35.9	25.4	31.0	24.9
87.5°	10.5	18.3	16.0	15.5	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)