

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: P291108

Luminaire Tested: **14GR-LD5-28-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291108
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-L92765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2764.0 lumens
Efficiency: N/A
Efficacy: 118.9 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

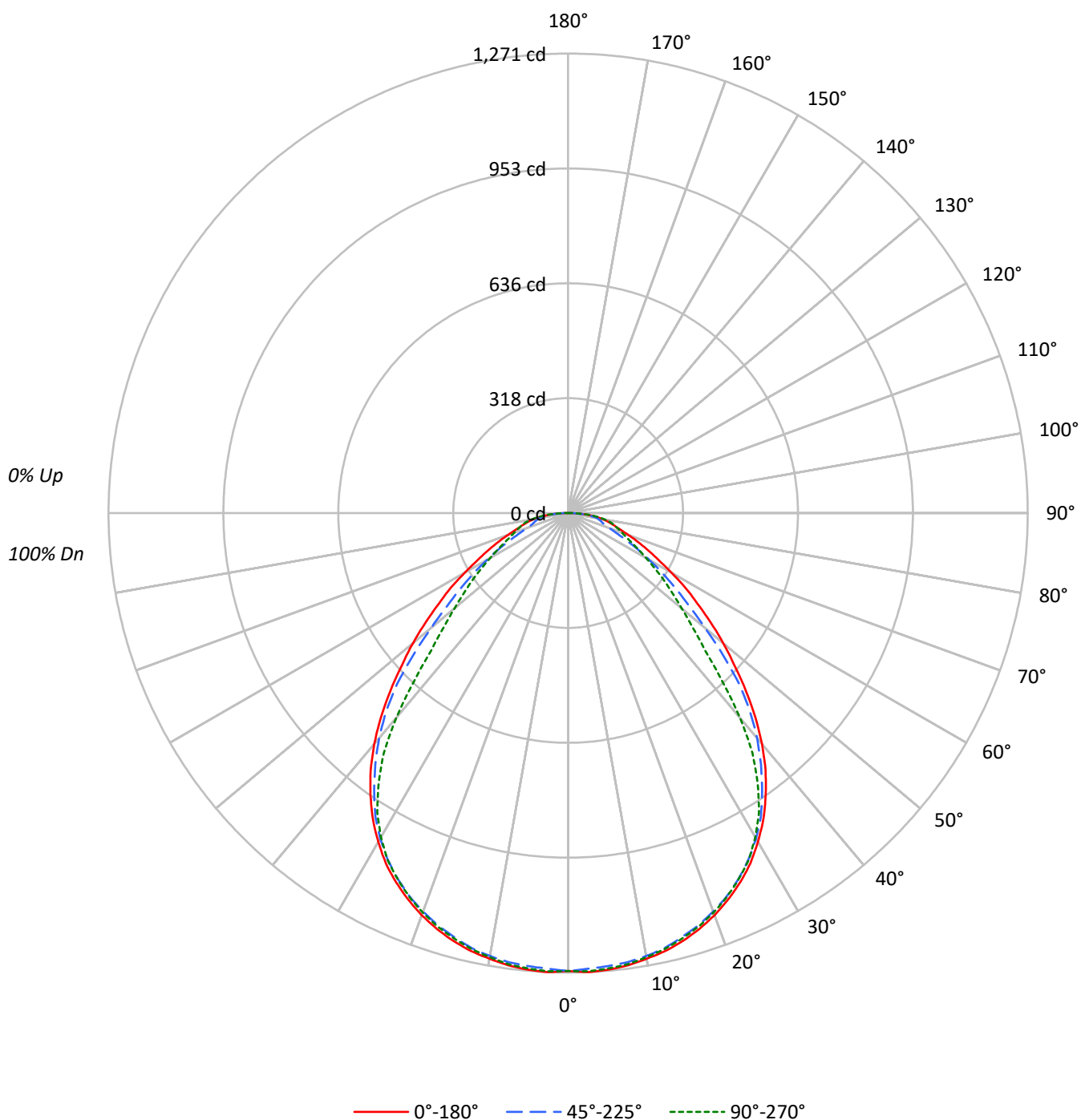
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3408	3408	3408
5°	3425	3399	3416
10°	3421	3399	3408
15°	3414	3384	3394
20°	3390	3359	3368
25°	3345	3313	3315
30°	3263	3229	3215
35°	3130	3073	3003
40°	2929	2855	2598
45°	2646	2546	2030
50°	2346	2067	1717
55°	2048	1696	1515
60°	1776	1396	1337
65°	1557	1120	1235
70°	1389	950	1242
75°	1355	1001	1388
80°	1502	1263	1592
85°	1565	1349	1862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	4.3
10°-20°	344.3	12.5
20°-30°	515.0	18.6
30°-40°	581.3	21.0
40°-50°	493.2	17.8
50°-60°	333.7	12.1
60°-70°	199.2	7.2
70°-80°	124.7	4.5
80°-90°	52.5	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°	979.4	35.4
0°-40°	1560.7	56.5
0°-60°	2387.6	86.4
0°-90°	2764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1267	1267	1267	1267	1267	
5°	1268	1264	1258	1267	1265	121
15°	1226	1223	1215	1223	1218	346
25°	1127	1123	1116	1121	1116	518
35°	953	946	935	927	914	594
45°	695	698	669	573	534	536
55°	436	416	361	324	323	393
65°	245	203	176	188	194	244
75°	130	116	96	127	134	140
85°	51	48	44	56	60	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1266.6	1266.6	1266.6	1266.6	1266.6
2.5°	1271.1	1267.2	1261.5	1269.2	1268.5
5°	1267.9	1264.0	1258.2	1267.2	1264.7
7.5°	1262.1	1258.9	1253.1	1261.5	1258.9
10°	1251.8	1249.3	1244.1	1251.2	1247.3
12.5°	1240.9	1239.0	1232.6	1239.0	1235.1
15°	1225.5	1222.9	1214.6	1222.9	1218.4
17.5°	1206.2	1203.0	1196.0	1203.0	1199.2
20°	1183.8	1179.9	1172.9	1179.9	1176.1
22.5°	1156.8	1153.6	1147.2	1153.6	1148.5
25°	1126.6	1122.8	1115.7	1120.9	1116.4
27.5°	1092.0	1086.8	1080.4	1084.3	1081.7
30°	1050.2	1043.8	1039.3	1039.3	1034.8
32.5°	1004.7	1000.2	992.5	988.0	982.2
35°	952.7	946.2	935.3	927.0	914.2
37.5°	896.8	889.1	875.6	854.4	837.1
40°	833.9	824.3	812.7	771.0	739.5
42.5°	766.5	764.6	744.7	673.4	629.8
45°	695.2	697.8	668.9	573.3	533.5
47.5°	623.3	632.3	579.7	486.0	465.4
50°	560.4	563.6	493.7	421.8	410.2
52.5°	495.6	490.5	421.1	371.1	362.7
55°	436.5	416.0	361.4	323.5	322.9
57.5°	384.5	346.7	308.8	280.5	283.7
60°	330.0	287.6	259.4	243.9	248.4
62.5°	281.8	241.4	216.3	211.8	219.6
65°	244.6	202.9	175.9	187.5	193.9
67.5°	209.3	174.0	143.2	170.8	173.3
70°	176.5	150.9	120.7	157.3	157.9
72.5°	149.6	133.5	104.6	142.5	144.4
75°	130.3	116.2	96.3	127.1	133.5
77.5°	114.3	99.5	89.2	109.8	120.7
80°	96.9	80.2	81.5	91.8	102.7
82.5°	74.5	62.3	64.8	75.8	83.5
85°	50.7	48.1	43.7	56.5	60.3
87.5°	27.0	25.7	22.5	32.1	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)