

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: P291110

Luminaire Tested: **14GR-LD5-32-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291110
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-LD5-32-A-UNV-L92765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2693.0 lumens
Efficiency: N/A
Efficacy: 106.1 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

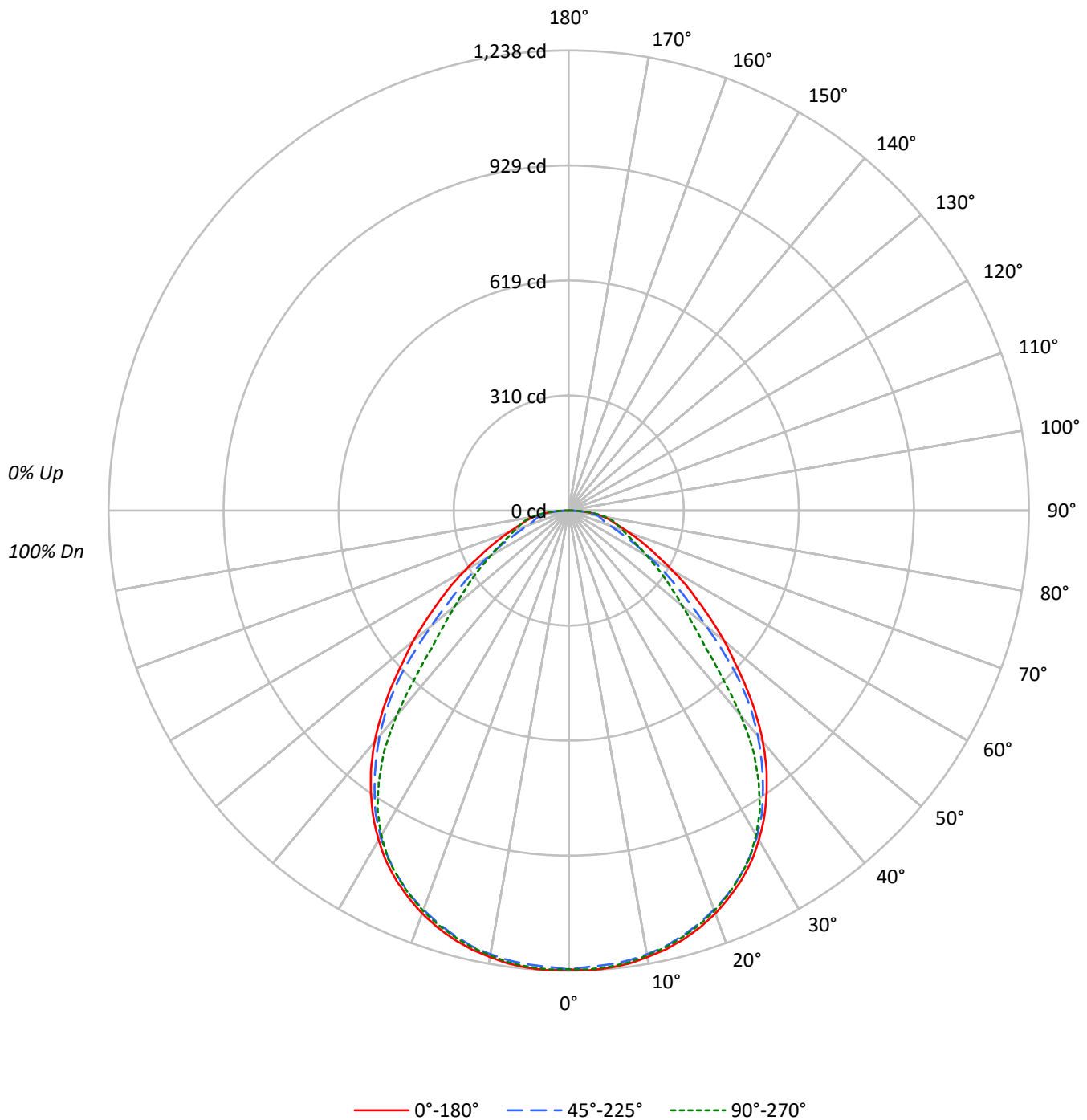
Input Watts (W): 25.389
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3321	3321	3321
5°	3337	3311	3328
10°	3333	3312	3321
15°	3326	3297	3307
20°	3303	3272	3281
25°	3259	3228	3230
30°	3180	3146	3133
35°	3049	2994	2926
40°	2854	2781	2531
45°	2578	2480	1978
50°	2286	2014	1673
55°	1995	1652	1476
60°	1730	1360	1303
65°	1517	1091	1203
70°	1353	925	1211
75°	1320	975	1353
80°	1463	1230	1551
85°	1525	1312	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	4.3
10°-20°	335.4	12.5
20°-30°	501.8	18.6
30°-40°	566.4	21.0
40°-50°	480.5	17.8
50°-60°	325.1	12.1
60°-70°	194.1	7.2
70°-80°	121.5	4.5
80°-90°	51.1	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°	954.3	35.4
0°-40°	1520.7	56.5
0°-60°	2326.3	86.4
0°-90°	2693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1235	1232	1226	1235	1232	117
15°	1194	1192	1183	1192	1187	337
25°	1098	1094	1087	1092	1088	505
35°	928	922	911	903	891	578
45°	677	680	652	558	520	522
55°	425	405	352	315	315	383
65°	238	198	171	183	189	238
75°	127	113	94	124	130	137
85°	49	47	42	55	59	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.1	1234.1	1234.1	1234.1	1234.1
2.5°	1238.4	1234.7	1229.0	1236.6	1235.9
5°	1235.3	1231.5	1225.9	1234.7	1232.2
7.5°	1229.7	1226.5	1220.9	1229.0	1226.5
10°	1219.7	1217.2	1212.2	1219.0	1215.3
12.5°	1209.0	1207.2	1200.9	1207.2	1203.4
15°	1194.0	1191.5	1183.4	1191.5	1187.1
17.5°	1175.3	1172.1	1165.3	1172.1	1168.4
20°	1153.4	1149.6	1142.7	1149.6	1145.9
22.5°	1127.1	1124.0	1117.7	1124.0	1119.0
25°	1097.7	1093.9	1087.1	1092.1	1087.7
27.5°	1063.9	1058.9	1052.7	1056.4	1053.9
30°	1023.3	1017.0	1012.6	1012.6	1008.3
32.5°	978.9	974.5	967.0	962.6	957.0
35°	928.2	921.9	911.3	903.2	890.7
37.5°	873.8	866.3	853.1	832.5	815.6
40°	812.5	803.1	791.8	751.2	720.5
42.5°	746.8	744.9	725.5	656.1	613.6
45°	677.4	679.9	651.7	558.5	519.8
47.5°	607.3	616.1	564.8	473.5	453.5
50°	546.0	549.2	481.0	410.9	399.7
52.5°	482.9	477.9	410.3	361.5	353.4
55°	425.3	405.3	352.1	315.2	314.6
57.5°	374.7	337.8	300.9	273.3	276.5
60°	321.5	280.2	252.7	237.7	242.1
62.5°	274.6	235.2	210.8	206.4	213.9
65°	238.3	197.6	171.4	182.6	188.9
67.5°	203.9	169.5	139.5	166.4	168.9
70°	172.0	147.0	117.6	153.2	153.9
72.5°	145.7	130.1	102.0	138.9	140.7
75°	127.0	113.2	93.8	123.8	130.1
77.5°	111.3	96.9	86.9	107.0	117.6
80°	94.4	78.2	79.4	89.4	100.1
82.5°	72.6	60.7	63.2	73.8	81.3
85°	49.4	46.9	42.5	55.0	58.8
87.5°	26.3	25.0	21.9	31.3	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)