

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: P291111

Luminaire Tested: **14GR-LD5-32-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291111
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2828.0 lumens
Efficiency: N/A
Efficacy: 109.8 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

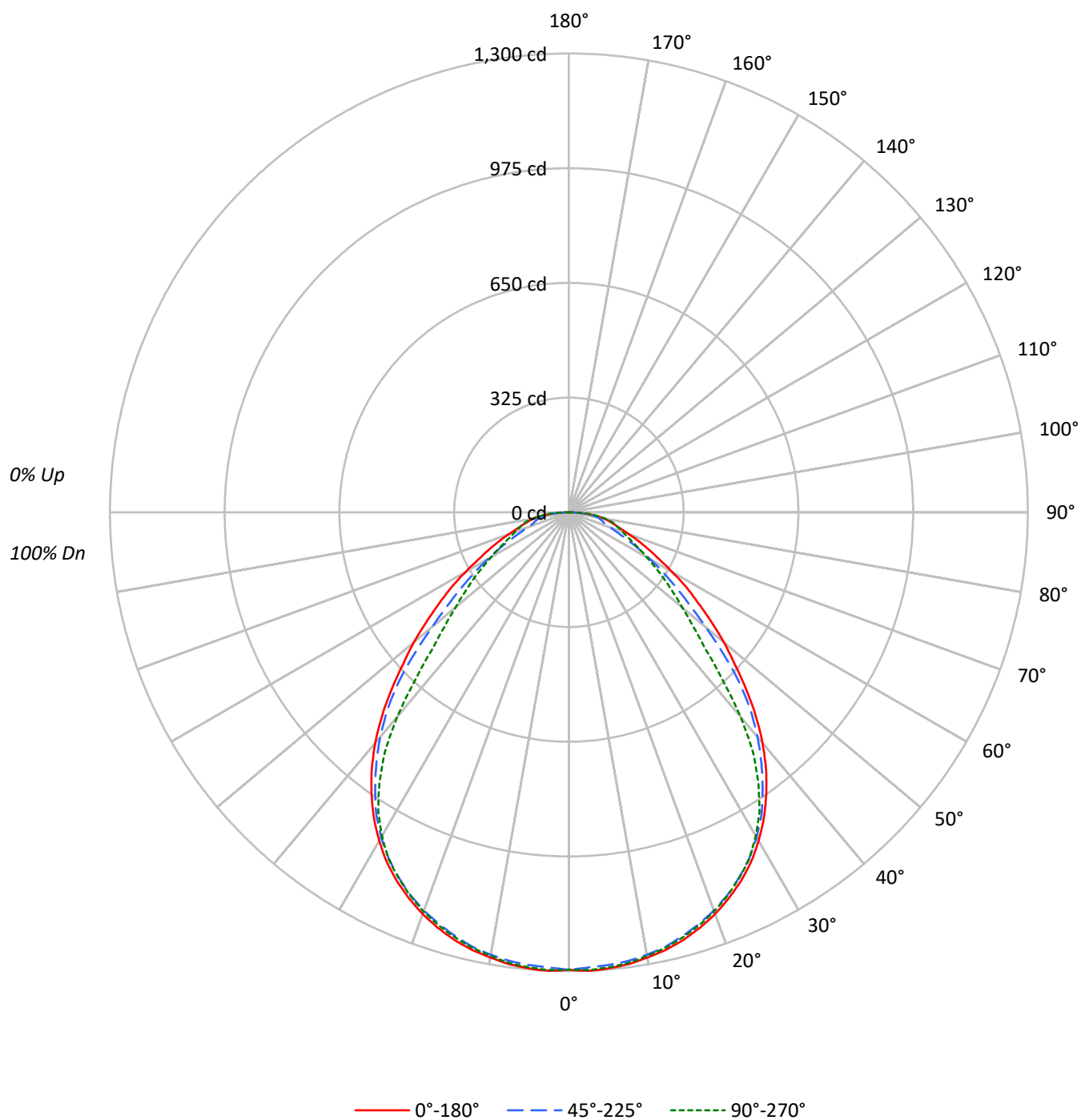
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56		56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3487	3487	3487
5°	3504	3478	3495
10°	3500	3478	3487
15°	3493	3462	3473
20°	3468	3436	3446
25°	3423	3390	3391
30°	3339	3304	3290
35°	3202	3144	3073
40°	2997	2921	2658
45°	2707	2605	2077
50°	2400	2115	1757
55°	2095	1735	1550
60°	1817	1428	1368
65°	1594	1146	1263
70°	1421	972	1271
75°	1386	1024	1420
80°	1537	1292	1629
85°	1602	1380	1905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	4.3
10°-20°	352.2	12.5
20°-30°	526.9	18.6
30°-40°	594.8	21.0
40°-50°	504.6	17.8
50°-60°	341.4	12.1
60°-70°	203.8	7.2
70°-80°	127.6	4.5
80°-90°	53.7	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°	1002.1	35.4
0°-40°	1596.9	56.5
0°-60°	2442.9	86.4
0°-90°	2828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1297	1293	1287	1297	1294	123
15°	1254	1251	1243	1251	1247	354
25°	1153	1149	1142	1147	1142	530
35°	975	968	957	948	935	607
45°	711	714	684	586	546	548
55°	447	426	370	331	330	402
65°	250	208	180	192	198	250
75°	133	119	98	130	137	143
85°	52	49	45	58	62	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1295.9	1295.9	1295.9	1295.9	1295.9
2.5°	1300.5	1296.6	1290.7	1298.5	1297.9
5°	1297.2	1293.3	1287.4	1296.6	1293.9
7.5°	1291.3	1288.0	1282.1	1290.7	1288.0
10°	1280.8	1278.2	1272.9	1280.2	1276.2
12.5°	1269.6	1267.7	1261.1	1267.7	1263.7
15°	1253.9	1251.3	1242.7	1251.3	1246.7
17.5°	1234.2	1230.9	1223.7	1230.9	1226.9
20°	1211.2	1207.2	1200.0	1207.2	1203.3
22.5°	1183.6	1180.3	1173.7	1180.3	1175.1
25°	1152.7	1148.8	1141.6	1146.8	1142.2
27.5°	1117.3	1112.0	1105.4	1109.4	1106.7
30°	1074.6	1068.0	1063.4	1063.4	1058.8
32.5°	1027.9	1023.3	1015.5	1010.9	1004.9
35°	974.7	968.2	957.0	948.5	935.3
37.5°	917.6	909.7	895.9	874.2	856.5
40°	853.2	843.4	831.5	788.8	756.7
42.5°	784.2	782.3	761.9	689.0	644.3
45°	711.3	714.0	684.4	586.5	545.8
47.5°	637.8	647.0	593.1	497.2	476.2
50°	573.4	576.7	505.1	431.5	419.7
52.5°	507.1	501.8	430.9	379.6	371.1
55°	446.6	425.6	369.8	331.0	330.4
57.5°	393.4	354.7	315.9	287.0	290.3
60°	337.6	294.3	265.4	249.6	254.2
62.5°	288.3	247.0	221.3	216.8	224.6
65°	250.3	207.6	180.0	191.8	198.4
67.5°	214.1	178.0	146.5	174.7	177.3
70°	180.6	154.4	123.5	160.9	161.6
72.5°	153.0	136.6	107.1	145.8	147.8
75°	133.3	118.9	98.5	130.1	136.6
77.5°	116.9	101.8	91.3	112.3	123.5
80°	99.2	82.1	83.4	93.9	105.1
82.5°	76.2	63.7	66.3	77.5	85.4
85°	51.9	49.3	44.7	57.8	61.7
87.5°	27.6	26.3	23.0	32.8	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)