

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: P291119

Luminaire Tested: **14GR-LD5-36-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291119
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-LD5-36-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: 3010.0 lumens
Efficiency: N/A
Efficacy: 103.7 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

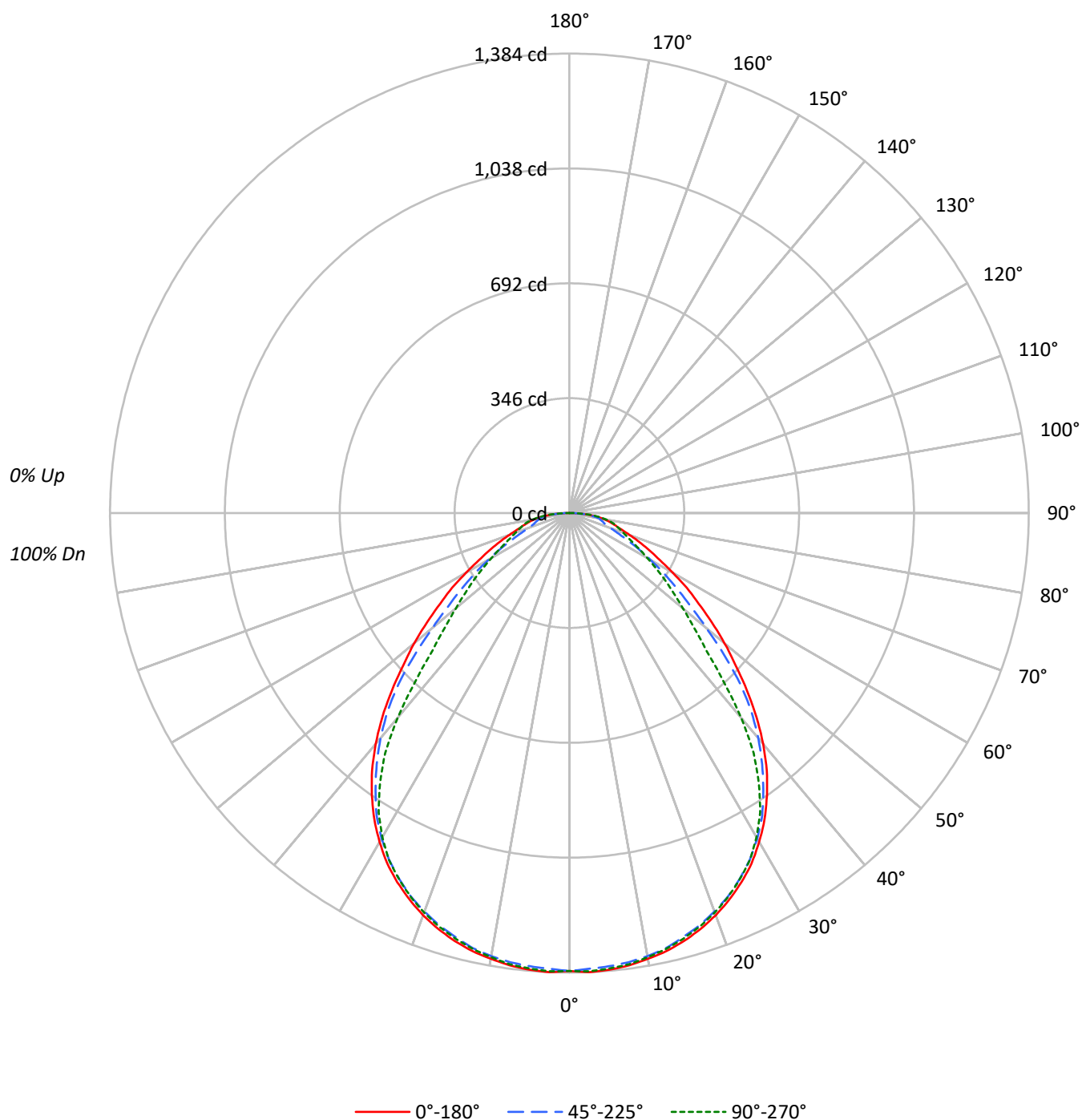
Input Watts (W): 29.016
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3712	3712	3712
5°	3730	3701	3720
10°	3725	3702	3712
15°	3718	3685	3697
20°	3692	3657	3668
25°	3643	3608	3610
30°	3554	3517	3502
35°	3408	3346	3270
40°	3190	3109	2829
45°	2881	2772	2211
50°	2555	2251	1870
55°	2230	1847	1650
60°	1934	1520	1456
65°	1696	1220	1344
70°	1513	1034	1353
75°	1475	1091	1512
80°	1636	1376	1734
85°	1704	1467	2029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	4.3
10°-20°	374.9	12.5
20°-30°	560.8	18.6
30°-40°	633.1	21.0
40°-50°	537.1	17.8
50°-60°	363.4	12.1
60°-70°	216.9	7.2
70°-80°	135.8	4.5
80°-90°	57.2	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°	1066.6	35.4
0°-40°	1699.7	56.5
0°-60°	2600.1	86.4
0°-90°	3010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1379	1379	1379	1379	1379	
5°	1381	1376	1370	1380	1377	131
15°	1335	1332	1323	1332	1327	376
25°	1227	1223	1215	1221	1216	564
35°	1038	1030	1019	1010	996	646
45°	757	760	728	624	581	583
55°	475	453	394	352	352	428
65°	266	221	192	204	211	266
75°	142	126	105	138	145	153
85°	55	52	48	62	66	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1379.3	1379.3	1379.3	1379.3	1379.3
2.5°	1384.2	1380.0	1373.7	1382.1	1381.4
5°	1380.7	1376.5	1370.2	1380.0	1377.2
7.5°	1374.4	1370.9	1364.6	1373.7	1370.9
10°	1363.2	1360.4	1354.8	1362.5	1358.3
12.5°	1351.4	1349.3	1342.3	1349.3	1345.1
15°	1334.6	1331.8	1322.7	1331.8	1326.9
17.5°	1313.6	1310.1	1302.4	1310.1	1305.9
20°	1289.1	1284.9	1277.2	1284.9	1280.7
22.5°	1259.8	1256.3	1249.3	1256.3	1250.7
25°	1226.9	1222.7	1215.0	1220.6	1215.7
27.5°	1189.2	1183.6	1176.6	1180.8	1178.0
30°	1143.7	1136.7	1131.8	1131.8	1126.9
32.5°	1094.1	1089.2	1080.8	1075.9	1069.6
35°	1037.5	1030.5	1018.6	1009.5	995.5
37.5°	976.6	968.2	953.6	930.5	911.6
40°	908.1	897.6	885.1	839.6	805.4
42.5°	834.7	832.6	811.0	733.4	685.8
45°	757.1	759.9	728.5	624.3	580.9
47.5°	678.8	688.6	631.3	529.2	506.8
50°	610.3	613.8	537.6	459.3	446.7
52.5°	539.7	534.1	458.6	404.1	395.0
55°	475.4	453.0	393.6	352.3	351.6
57.5°	418.8	377.5	336.3	305.5	309.0
60°	359.3	313.2	282.4	265.7	270.5
62.5°	306.9	262.9	235.6	230.7	239.1
65°	266.4	220.9	191.6	204.1	211.1
67.5°	227.9	189.5	155.9	186.0	188.8
70°	192.3	164.3	131.4	171.3	172.0
72.5°	162.9	145.4	114.0	155.2	157.3
75°	141.9	126.5	104.9	138.4	145.4
77.5°	124.4	108.4	97.2	119.5	131.4
80°	105.6	87.4	88.8	100.0	111.9
82.5°	81.1	67.8	70.6	82.5	90.9
85°	55.2	52.4	47.5	61.5	65.7
87.5°	29.4	28.0	24.5	35.0	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)