

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: P291314

Luminaire Tested: **14GR-LD5-36-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A125-UNV-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2898.0 lumens
Efficiency: N/A
Efficacy: 99.2 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

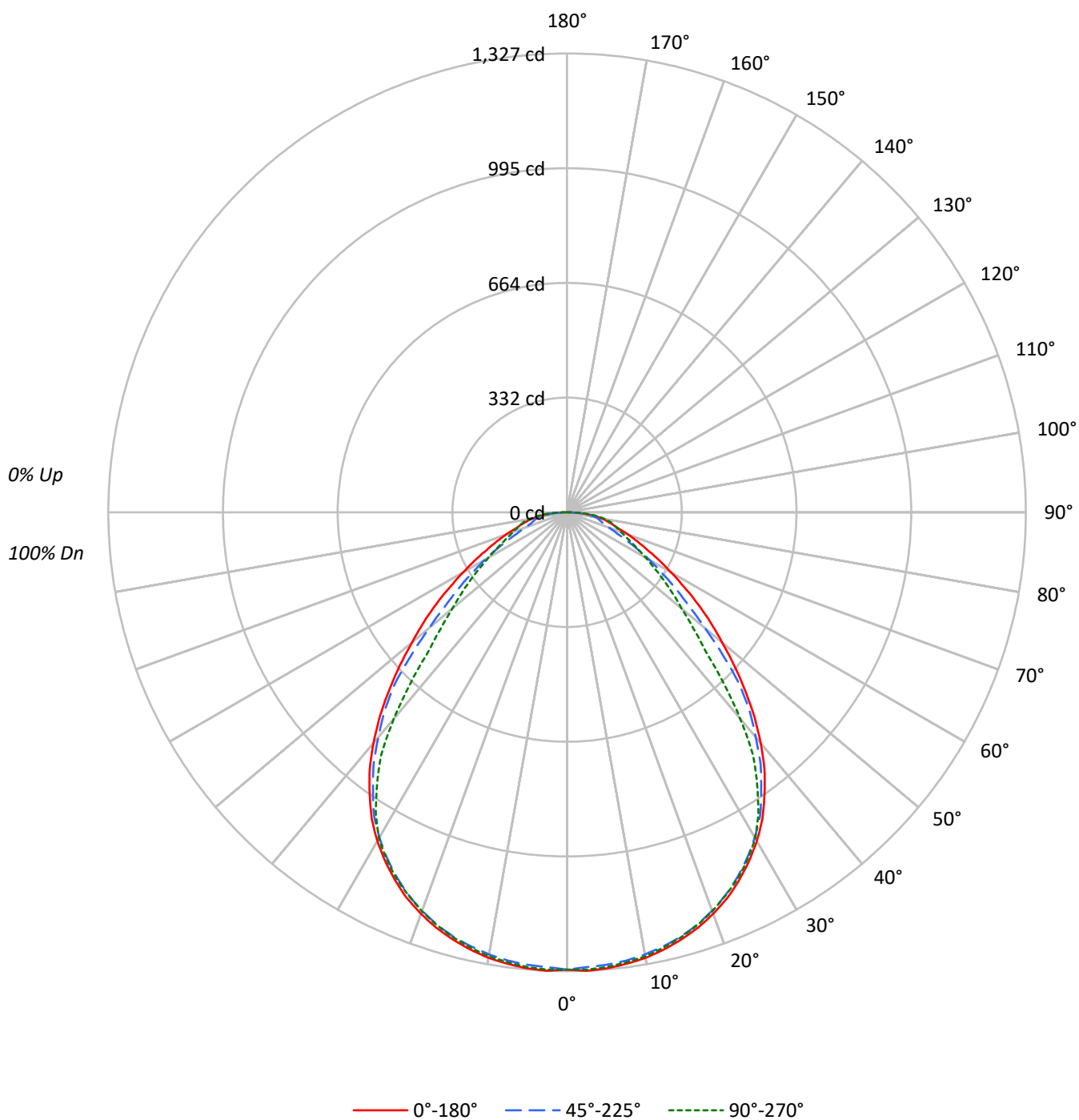
Input Watts (W): 29.202
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3559	3559	3559
5°	3576	3549	3565
10°	3575	3547	3562
15°	3562	3540	3546
20°	3539	3512	3516
25°	3491	3459	3469
30°	3411	3374	3382
35°	3271	3216	3147
40°	3059	2983	2737
45°	2768	2689	2147
50°	2449	2176	1810
55°	2167	1788	1596
60°	1871	1480	1415
65°	1627	1177	1301
70°	1471	1010	1301
75°	1412	1055	1454
80°	1573	1344	1698
85°	1661	1433	2035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	4.3
10°-20°	359.5	12.4
20°-30°	538.0	18.6
30°-40°	609.0	21.0
40°-50°	518.7	17.9
50°-60°	351.2	12.1
60°-70°	209.7	7.2
70°-80°	131.0	4.5
80°-90°	55.4	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°	1022.9	35.3
0°-40°	1631.9	56.3
0°-60°	2501.9	86.3
0°-90°	2898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1324	1320	1314	1322	1320	126
15°	1279	1274	1271	1279	1273	361
25°	1176	1172	1165	1170	1168	541
35°	996	990	979	969	958	621
45°	727	730	707	602	564	561
55°	462	436	381	340	340	413
65°	256	213	185	198	204	258
75°	136	122	102	133	140	147
85°	54	50	46	58	66	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1322.4	1322.4	1322.4	1322.4	1322.4
2.5°	1327.2	1323.8	1316.4	1325.1	1323.8
5°	1323.8	1320.4	1313.7	1321.8	1319.8
7.5°	1317.1	1313.7	1307.7	1315.7	1312.4
10°	1308.3	1304.3	1298.2	1307.0	1303.6
12.5°	1294.9	1290.8	1285.5	1294.2	1289.5
15°	1278.7	1274.0	1270.7	1278.7	1272.7
17.5°	1259.3	1255.2	1250.5	1258.6	1251.9
20°	1235.7	1232.4	1226.3	1231.0	1227.7
22.5°	1208.8	1204.1	1198.1	1203.4	1198.7
25°	1175.9	1172.5	1165.1	1170.5	1168.5
27.5°	1138.2	1136.2	1127.5	1134.2	1130.8
30°	1097.9	1092.5	1085.8	1087.8	1088.5
32.5°	1051.5	1044.8	1039.4	1034.7	1030.0
35°	995.7	989.7	978.9	968.8	958.1
37.5°	937.9	929.8	919.1	896.9	883.4
40°	870.7	866.6	849.1	818.2	779.2
42.5°	802.1	798.0	782.6	713.3	671.0
45°	727.4	729.5	706.6	602.4	564.1
47.5°	656.2	661.6	611.8	514.3	494.2
50°	584.9	591.0	519.7	444.4	432.3
52.5°	522.4	517.7	443.1	389.9	384.6
55°	461.9	436.3	381.2	340.2	340.2
57.5°	400.0	363.7	324.1	297.8	297.8
60°	347.6	302.5	275.0	257.5	262.9
62.5°	299.2	251.4	227.9	224.6	231.3
65°	255.5	213.1	184.9	197.7	204.4
67.5°	219.8	182.2	151.9	178.8	182.9
70°	186.9	158.7	128.4	164.7	165.4
72.5°	156.6	139.8	110.3	149.3	151.9
75°	135.8	121.7	101.5	133.1	139.8
77.5°	119.0	104.2	93.5	115.0	127.7
80°	101.5	85.4	86.7	96.8	109.6
82.5°	78.0	65.9	68.6	79.3	89.4
85°	53.8	49.8	46.4	58.5	65.9
87.5°	28.9	26.9	23.5	32.9	33.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)