

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: P293345

Luminaire Tested: **24GR-LD5-34-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-F125-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3163.0 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

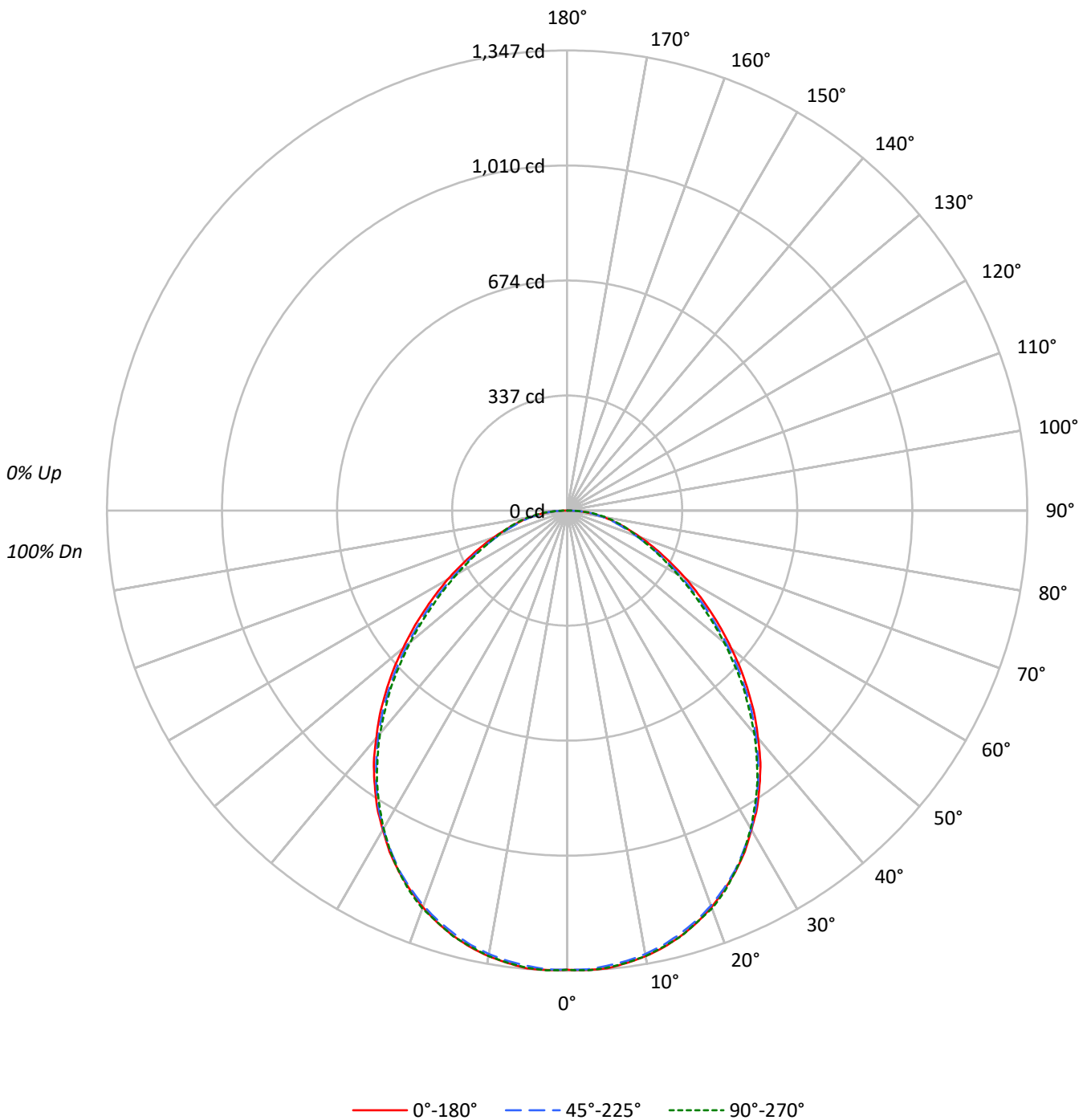
Input Watts (W): 23.436
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293345

CATALOG NUMBER: 24GR-LD5-34-F125-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P293345

CATALOG NUMBER: 24GR-LD5-34-F125-UNV-L92765-W2A1-U-4500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66		75	70	65		72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57		67	61	57		65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50		61	55	50		59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44		55	49	44		54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40		51	44	39		49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36		47	40	36		46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32		43	37	32		42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30		40	34	29		39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1809	1809	1809
5°	1817	1807	1814
10°	1810	1801	1809
15°	1795	1786	1797
20°	1769	1762	1775
25°	1731	1726	1730
30°	1676	1673	1669
35°	1613	1601	1594
40°	1527	1509	1497
45°	1428	1402	1385
50°	1312	1277	1255
55°	1197	1153	1119
60°	1087	1028	1002
65°	979	924	908
70°	897	838	862
75°	838	800	858
80°	831	816	896
85°	848	855	977



TEST NUMBER: P293345

CATALOG NUMBER: 24GR-LD5-34-F125-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	4.0
10°-20°	361.7	11.4
20°-30°	534.3	16.9
30°-40°	607.5	19.2
40°-50°	567.3	17.9
50°-60°	441.2	13.9
60°-70°	292.7	9.3
70°-80°	169.4	5.4
80°-90°	61.6	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°	1023.3	32.4
0°-40°	1630.8	51.6
0°-60°	2639.3	83.4
0°-90°	3163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1344	1344	1344	1344	1344	
5°	1345	1338	1338	1340	1343	128
15°	1289	1282	1282	1282	1290	363
25°	1166	1161	1163	1160	1165	536
35°	982	977	974	968	970	613
45°	750	745	737	727	728	578
55°	510	503	491	479	477	458
65°	308	298	290	285	285	307
75°	161	157	154	161	165	172
85°	55	54	55	63	63	60
90°	0	0	0	0	0	



TEST NUMBER: P293345

CATALOG NUMBER: 24GR-LD5-34-F125-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1344.3	1344.3	1344.3	1344.3	1344.3
2.5°	1346.3	1342.3	1344.3	1342.8	1347.2
5°	1345.3	1338.3	1337.8	1340.3	1343.3
7.5°	1335.9	1328.5	1329.9	1329.9	1334.9
10°	1324.5	1317.1	1318.1	1318.6	1324.0
12.5°	1309.2	1301.8	1302.3	1301.8	1307.2
15°	1288.9	1282.5	1282.0	1281.5	1289.9
17.5°	1264.2	1255.3	1258.2	1258.7	1263.2
20°	1235.5	1228.6	1230.6	1230.1	1239.5
22.5°	1201.4	1196.4	1197.9	1196.9	1205.8
25°	1165.8	1160.9	1162.8	1160.4	1165.3
27.5°	1125.7	1122.3	1120.3	1118.8	1122.3
30°	1078.8	1076.8	1076.8	1070.4	1074.3
32.5°	1034.3	1027.9	1027.9	1025.4	1022.9
35°	981.9	976.9	974.5	967.5	970.5
37.5°	929.5	918.1	917.1	911.7	911.7
40°	869.2	862.7	859.3	853.3	852.3
42.5°	811.8	805.4	799.4	789.6	787.6
45°	750.5	744.6	736.7	727.3	727.8
47.5°	689.7	681.3	673.9	662.5	661.0
50°	626.9	621.0	610.1	600.2	599.7
52.5°	568.1	558.7	548.8	536.9	536.9
55°	510.2	502.8	491.4	478.6	477.1
57.5°	454.8	447.9	435.1	425.7	423.2
60°	403.9	394.0	382.2	374.3	372.3
62.5°	353.0	344.1	335.2	327.3	326.8
65°	307.5	298.1	290.2	284.8	285.3
67.5°	266.5	258.6	249.7	248.2	248.7
70°	227.9	219.5	213.1	216.5	219.0
72.5°	191.3	186.9	182.4	187.4	190.8
75°	161.2	157.2	153.8	160.7	165.1
77.5°	133.5	130.5	130.0	136.0	139.9
80°	107.3	103.8	105.3	112.2	115.7
82.5°	81.6	79.1	79.6	88.0	90.5
85°	54.9	53.9	55.4	62.8	63.3
87.5°	29.2	29.2	30.2	34.6	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)