

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: P293344

Luminaire Tested: **24GR-LD5-34-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293344
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3083.0 lumens
Efficiency: N/A
Efficacy: 132.6 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

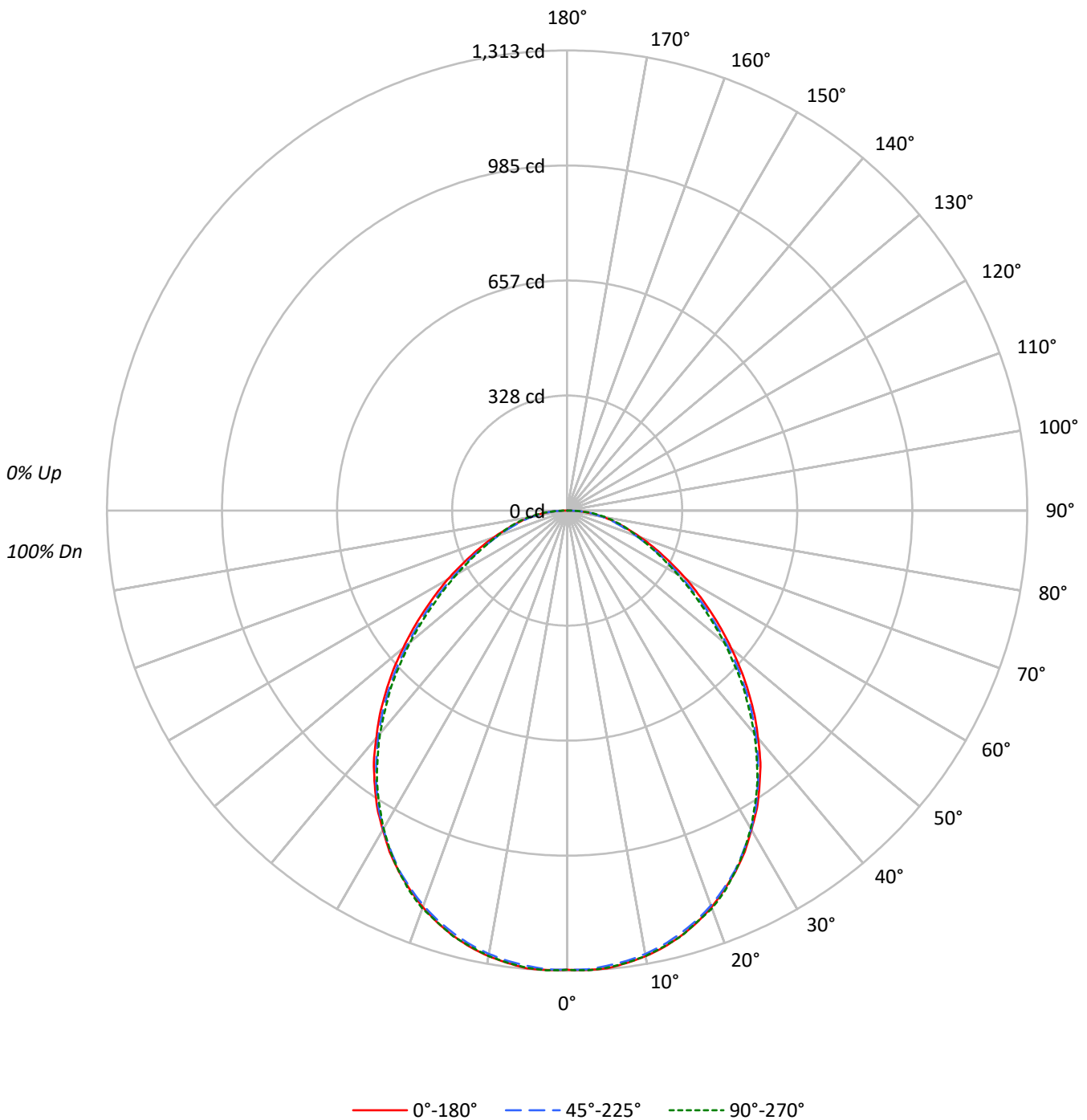
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1763	1763	1763
5°	1771	1761	1768
10°	1764	1755	1763
15°	1750	1741	1751
20°	1724	1717	1730
25°	1687	1683	1686
30°	1634	1631	1627
35°	1572	1560	1554
40°	1488	1471	1459
45°	1392	1366	1350
50°	1279	1245	1223
55°	1167	1124	1091
60°	1059	1002	977
65°	954	901	885
70°	874	817	840
75°	817	779	837
80°	810	795	874
85°	826	834	953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	4.0
10°-20°	352.5	11.4
20°-30°	520.8	16.9
30°-40°	592.1	19.2
40°-50°	553.0	17.9
50°-60°	430.0	13.9
60°-70°	285.3	9.3
70°-80°	165.1	5.4
80°-90°	60.0	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°	997.4	32.4
0°-40°	1589.5	51.6
0°-60°	2572.5	83.4
0°-90°	3083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1311	1304	1304	1306	1309	124
15°	1256	1250	1250	1249	1257	354
25°	1136	1132	1133	1131	1136	522
35°	957	952	950	943	946	598
45°	732	726	718	709	709	564
55°	497	490	479	466	465	446
65°	300	291	283	278	278	300
75°	157	153	150	157	161	168
85°	54	52	54	61	62	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.3	1310.3	1310.3	1310.3	1310.3
2.5°	1312.2	1308.3	1310.3	1308.8	1313.2
5°	1311.2	1304.5	1304.0	1306.4	1309.3
7.5°	1302.1	1294.9	1296.3	1296.3	1301.1
10°	1291.0	1283.8	1284.7	1285.2	1290.5
12.5°	1276.1	1268.8	1269.3	1268.8	1274.1
15°	1256.3	1250.0	1249.6	1249.1	1257.3
17.5°	1232.2	1223.5	1226.4	1226.9	1231.2
20°	1204.3	1197.5	1199.4	1199.0	1208.1
22.5°	1171.0	1166.2	1167.6	1166.7	1175.3
25°	1136.3	1131.5	1133.4	1131.0	1135.8
27.5°	1097.3	1093.9	1092.0	1090.5	1093.9
30°	1051.5	1049.6	1049.6	1043.3	1047.2
32.5°	1008.1	1001.9	1001.9	999.5	997.0
35°	957.0	952.2	949.8	943.1	946.0
37.5°	906.0	894.9	893.9	888.6	888.6
40°	847.2	840.9	837.5	831.8	830.8
42.5°	791.3	785.0	779.2	769.6	767.7
45°	731.5	725.7	718.0	708.9	709.4
47.5°	672.2	664.1	656.8	645.7	644.3
50°	611.0	605.3	594.7	585.0	584.5
52.5°	553.7	544.5	534.9	523.3	523.3
55°	497.3	490.1	479.0	466.5	465.0
57.5°	443.3	436.6	424.1	414.9	412.5
60°	393.7	384.1	372.5	364.8	362.9
62.5°	344.1	335.4	326.7	319.0	318.5
65°	299.7	290.6	282.9	277.6	278.1
67.5°	259.7	252.0	243.4	241.9	242.4
70°	222.2	214.0	207.7	211.1	213.5
72.5°	186.5	182.2	177.8	182.6	186.0
75°	157.1	153.2	149.9	156.6	161.0
77.5°	130.1	127.2	126.7	132.5	136.4
80°	104.6	101.2	102.6	109.4	112.8
82.5°	79.5	77.1	77.6	85.8	88.2
85°	53.5	52.5	54.0	61.2	61.7
87.5°	28.4	28.4	29.4	33.7	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)