

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: P293346

Luminaire Tested: **24GR-LD5-34-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293346
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-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3227.0 lumens
Efficiency: N/A
Efficacy: 137.2 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

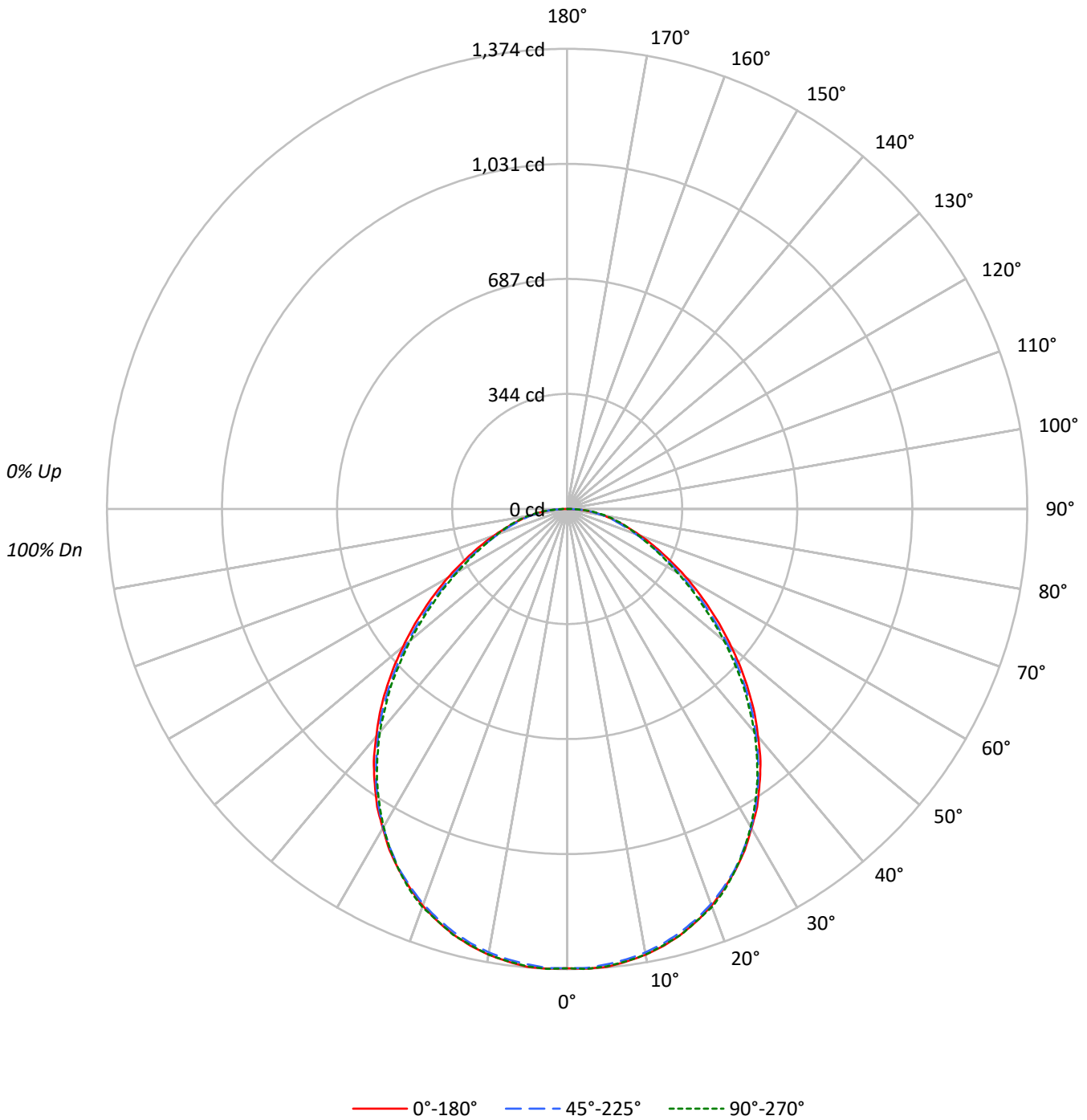
Input Watts (W): 23.529
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1845	1845	1845
5°	1854	1843	1851
10°	1846	1837	1846
15°	1832	1822	1833
20°	1805	1798	1811
25°	1766	1761	1765
30°	1710	1707	1703
35°	1645	1633	1626
40°	1557	1540	1527
45°	1457	1430	1413
50°	1339	1303	1281
55°	1221	1176	1142
60°	1109	1049	1022
65°	999	943	926
70°	915	855	879
75°	855	816	876
80°	848	832	914
85°	865	872	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	4.0
10°-20°	369.0	11.4
20°-30°	545.2	16.9
30°-40°	619.8	19.2
40°-50°	578.8	17.9
50°-60°	450.1	13.9
60°-70°	298.7	9.3
70°-80°	172.8	5.4
80°-90°	62.9	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°	1044.0	32.4
0°-40°	1663.8	51.6
0°-60°	2692.7	83.4
0°-90°	3227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1372	1365	1365	1367	1370	130
15°	1315	1308	1308	1307	1316	370
25°	1189	1184	1186	1184	1189	547
35°	1002	997	994	987	990	625
45°	766	760	752	742	742	590
55°	520	513	501	488	487	467
65°	314	304	296	290	291	314
75°	164	160	157	164	168	176
85°	56	55	56	64	65	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1371.5	1371.5	1371.5	1371.5	1371.5
2.5°	1373.5	1369.5	1371.5	1370.0	1374.5
5°	1372.5	1365.4	1364.9	1367.4	1370.5
7.5°	1362.9	1355.3	1356.8	1356.8	1361.9
10°	1351.3	1343.7	1344.7	1345.2	1350.8
12.5°	1335.7	1328.1	1328.6	1328.1	1333.6
15°	1315.0	1308.4	1307.9	1307.4	1316.0
17.5°	1289.8	1280.7	1283.7	1284.2	1288.8
20°	1260.5	1253.4	1255.5	1255.0	1264.5
22.5°	1225.7	1220.7	1222.2	1221.2	1230.2
25°	1189.4	1184.3	1186.4	1183.8	1188.9
27.5°	1148.5	1145.0	1143.0	1141.5	1145.0
30°	1100.6	1098.6	1098.6	1092.0	1096.1
32.5°	1055.2	1048.7	1048.7	1046.1	1043.6
35°	1001.7	996.7	994.2	987.1	990.1
37.5°	948.3	936.7	935.7	930.1	930.1
40°	886.7	880.2	876.7	870.6	869.6
42.5°	828.2	821.7	815.6	805.5	803.5
45°	765.7	759.6	751.6	742.0	742.5
47.5°	703.6	695.1	687.5	675.9	674.4
50°	639.6	633.5	622.4	612.3	611.8
52.5°	579.6	570.0	559.9	547.8	547.8
55°	520.5	513.0	501.4	488.3	486.7
57.5°	464.1	457.0	443.9	434.3	431.8
60°	412.1	402.0	389.9	381.8	379.8
62.5°	360.1	351.1	342.0	333.9	333.4
65°	313.7	304.2	296.1	290.5	291.0
67.5°	271.9	263.8	254.7	253.2	253.7
70°	232.5	224.0	217.4	220.9	223.5
72.5°	195.2	190.7	186.1	191.2	194.7
75°	164.4	160.4	156.9	163.9	168.5
77.5°	136.2	133.2	132.7	138.7	142.7
80°	109.5	105.9	107.4	114.5	118.0
82.5°	83.2	80.7	81.2	89.8	92.3
85°	56.0	55.0	56.5	64.1	64.6
87.5°	29.8	29.8	30.8	35.3	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)