

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: P293212

Luminaire Tested: **24GR-LD5-30-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293212
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-LD5-30-F125-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3169.0 lumens
Efficiency: N/A
Efficacy: 154.2 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

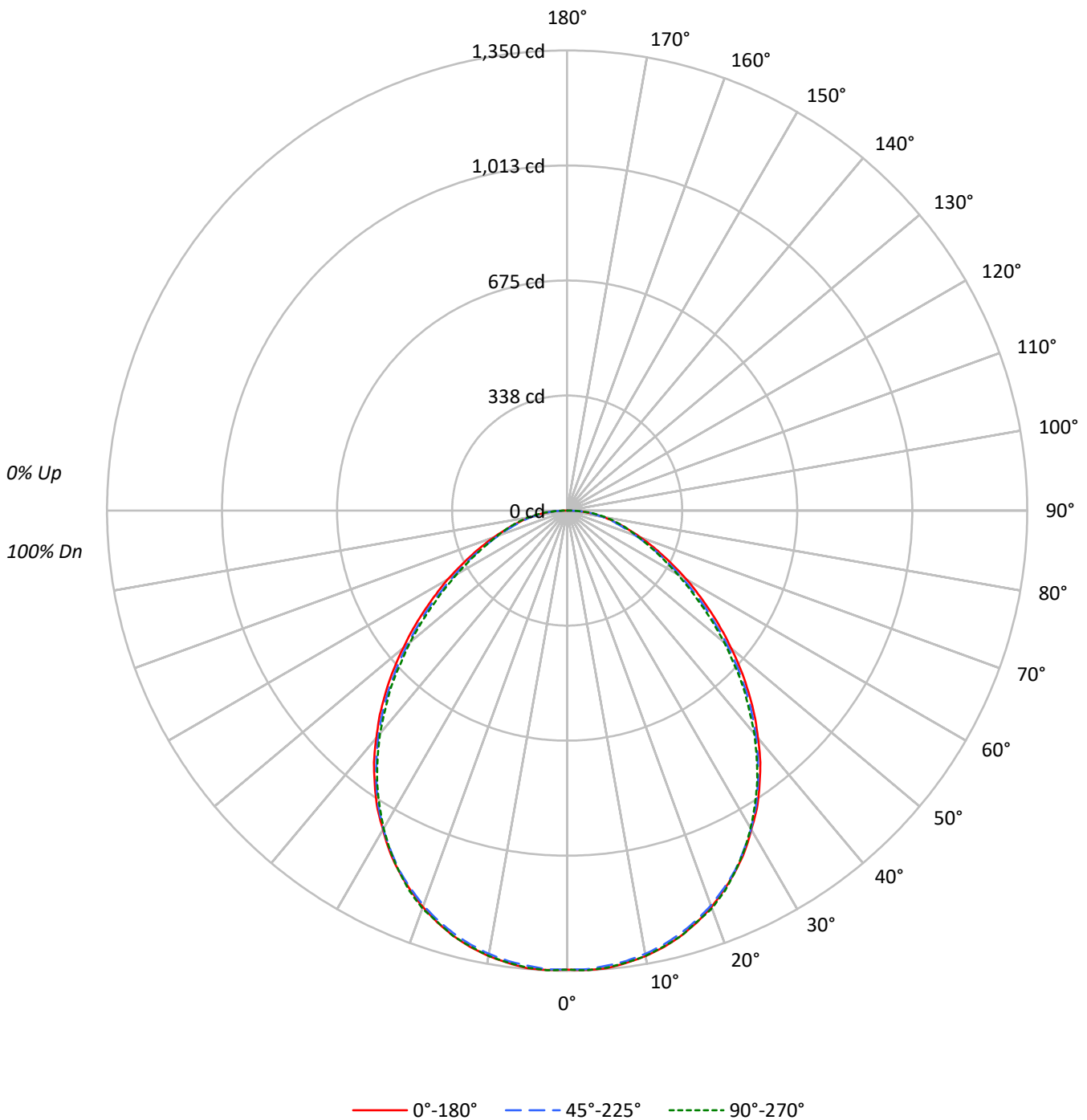
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1812	1812	1812
5°	1820	1810	1818
10°	1813	1804	1812
15°	1799	1789	1800
20°	1772	1765	1778
25°	1734	1730	1733
30°	1679	1676	1672
35°	1616	1604	1597
40°	1529	1512	1500
45°	1431	1404	1387
50°	1315	1279	1258
55°	1199	1155	1121
60°	1089	1030	1004
65°	981	926	910
70°	899	840	863
75°	840	801	860
80°	833	817	898
85°	849	857	979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	4.0
10°-20°	362.4	11.4
20°-30°	535.4	16.9
30°-40°	608.6	19.2
40°-50°	568.4	17.9
50°-60°	442.0	13.9
60°-70°	293.3	9.3
70°-80°	169.7	5.4
80°-90°	61.7	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°	1025.2	32.4
0°-40°	1633.8	51.6
0°-60°	2644.3	83.4
0°-90°	3169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1348	1341	1340	1343	1346	128
15°	1291	1285	1284	1284	1292	364
25°	1168	1163	1165	1163	1168	537
35°	984	979	976	969	972	614
45°	752	746	738	729	729	579
55°	511	504	492	480	478	458
65°	308	299	291	285	286	308
75°	162	158	154	161	165	173
85°	55	54	56	63	63	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.8	1346.8	1346.8	1346.8	1346.8
2.5°	1348.8	1344.8	1346.8	1345.3	1349.8
5°	1347.8	1340.9	1340.4	1342.9	1345.8
7.5°	1338.4	1331.0	1332.5	1332.5	1337.4
10°	1327.0	1319.6	1320.6	1321.1	1326.5
12.5°	1311.7	1304.2	1304.7	1304.2	1309.7
15°	1291.3	1284.9	1284.4	1283.9	1292.3
17.5°	1266.6	1257.7	1260.6	1261.1	1265.6
20°	1237.9	1230.9	1232.9	1232.4	1241.8
22.5°	1203.7	1198.7	1200.2	1199.2	1208.1
25°	1168.0	1163.1	1165.0	1162.6	1167.5
27.5°	1127.9	1124.4	1122.4	1121.0	1124.4
30°	1080.8	1078.8	1078.8	1072.4	1076.4
32.5°	1036.2	1029.8	1029.8	1027.3	1024.9
35°	983.7	978.8	976.3	969.4	972.3
37.5°	931.2	919.8	918.9	913.4	913.4
40°	870.8	864.4	860.9	855.0	854.0
42.5°	813.3	806.9	801.0	791.1	789.1
45°	751.9	746.0	738.1	728.6	729.1
47.5°	691.0	682.6	675.1	663.8	662.3
50°	628.1	622.1	611.2	601.3	600.8
52.5°	569.1	559.7	549.8	537.9	537.9
55°	511.2	503.8	492.4	479.5	478.0
57.5°	455.7	448.8	435.9	426.5	424.0
60°	404.7	394.8	382.9	375.0	373.0
62.5°	353.7	344.8	335.8	327.9	327.4
65°	308.1	298.7	290.8	285.3	285.8
67.5°	267.0	259.1	250.1	248.7	249.2
70°	228.4	219.9	213.5	217.0	219.4
72.5°	191.7	187.2	182.8	187.7	191.2
75°	161.5	157.5	154.1	161.0	165.4
77.5°	133.7	130.8	130.3	136.2	140.2
80°	107.5	104.0	105.5	112.4	115.9
82.5°	81.7	79.3	79.7	88.2	90.6
85°	55.0	54.0	55.5	62.9	63.4
87.5°	29.2	29.2	30.2	34.7	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)