

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: P292912

Luminaire Tested: **24GR-LD5-30-F1-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-F1-UNV-L83050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3231.0 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

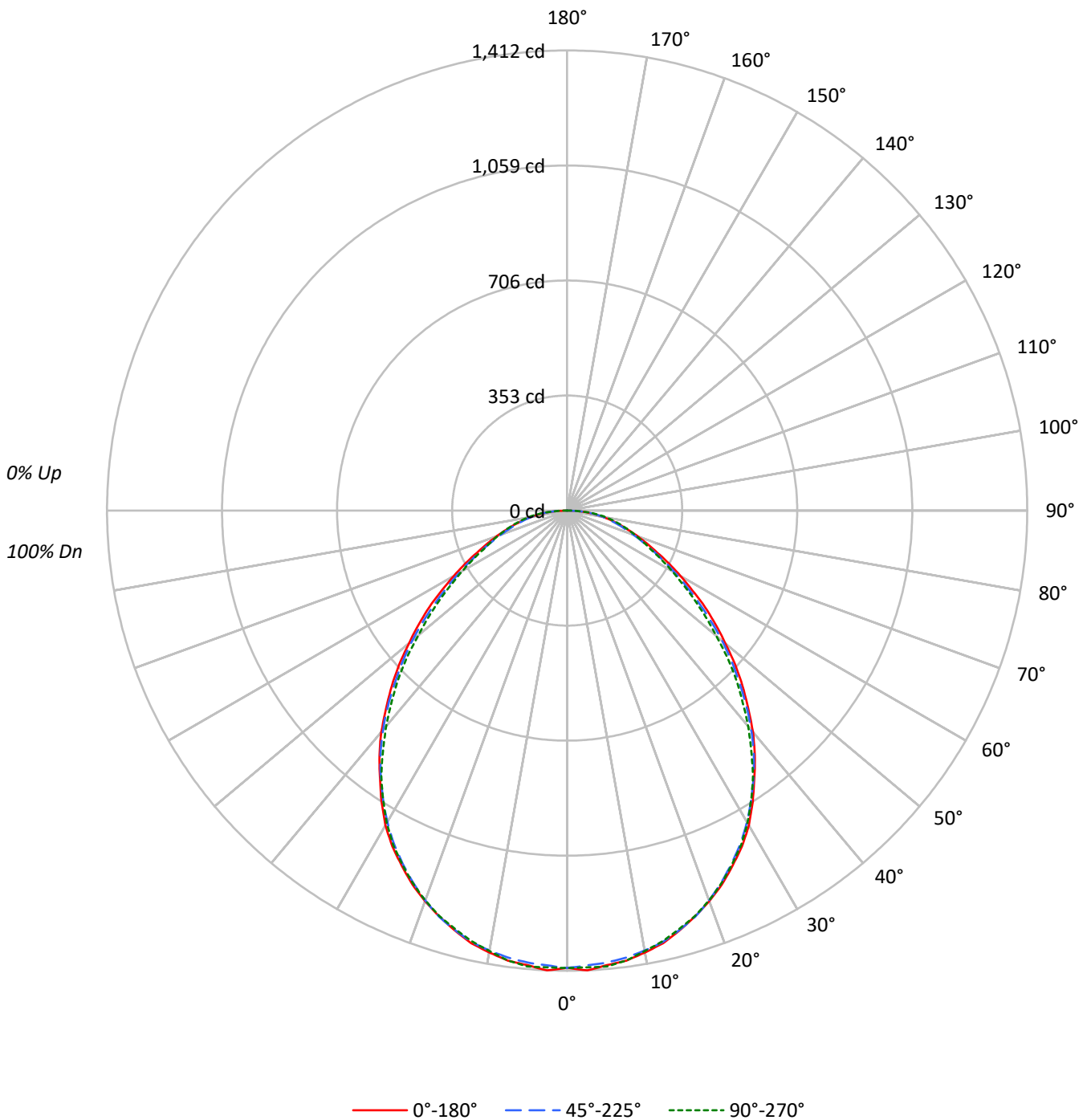
Input Watts (W): 21.018
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1888	1888	1888
5°	1891	1880	1896
10°	1881	1873	1875
15°	1858	1856	1851
20°	1826	1823	1823
25°	1784	1774	1778
30°	1732	1715	1720
35°	1645	1638	1633
40°	1558	1544	1517
45°	1448	1423	1395
50°	1327	1297	1248
55°	1212	1157	1118
60°	1080	1028	1001
65°	972	921	908
70°	902	847	881
75°	862	824	894
80°	862	862	955
85°	895	905	1008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	4.1
10°-20°	375.1	11.6
20°-30°	550.5	17.0
30°-40°	622.4	19.3
40°-50°	575.2	17.8
50°-60°	443.2	13.7
60°-70°	293.5	9.1
70°-80°	174.7	5.4
80°-90°	64.0	2.0
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°	1058.1	32.7
0°-40°	1680.5	52.0
0°-60°	2698.9	83.5
0°-90°	3231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3231.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1400	1400	1392	1393	1404	133
15°	1334	1331	1332	1332	1329	376
25°	1202	1198	1195	1194	1198	553
35°	1002	1000	997	992	994	627
45°	761	756	748	734	733	586
55°	516	506	493	480	476	461
65°	305	301	289	287	285	306
75°	166	162	159	166	172	177
85°	58	55	59	65	65	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.5	1403.5	1403.5	1403.5	1403.5
2.5°	1412.1	1404.8	1396.8	1396.8	1402.8
5°	1400.1	1400.1	1392.1	1392.8	1404.1
7.5°	1392.8	1388.8	1383.5	1383.5	1392.1
10°	1376.8	1373.5	1370.8	1369.5	1372.1
12.5°	1359.5	1354.2	1356.2	1354.2	1353.5
15°	1333.5	1330.8	1332.2	1331.5	1328.8
17.5°	1305.5	1304.2	1306.8	1302.2	1304.2
20°	1275.5	1271.5	1272.9	1270.2	1272.9
22.5°	1241.5	1238.9	1235.5	1232.2	1237.5
25°	1201.5	1198.2	1194.9	1193.5	1197.5
27.5°	1161.6	1156.2	1151.6	1150.2	1156.2
30°	1114.9	1108.9	1103.6	1102.3	1106.9
32.5°	1059.6	1058.3	1051.6	1048.9	1050.9
35°	1001.6	1000.3	997.0	992.3	994.3
37.5°	946.3	945.6	941.0	933.0	927.6
40°	887.0	882.3	879.0	867.7	863.7
42.5°	821.7	820.4	814.4	801.7	797.0
45°	761.0	755.7	747.7	734.4	733.1
47.5°	698.4	691.1	683.7	667.1	666.4
50°	633.8	628.4	619.8	603.1	596.4
52.5°	573.8	566.5	554.5	538.5	535.1
55°	516.5	505.8	493.1	479.8	476.5
57.5°	455.2	450.5	435.2	424.5	420.5
60°	401.2	397.2	381.9	371.9	371.9
62.5°	352.5	346.5	333.2	326.5	326.5
65°	305.2	300.6	289.2	286.6	285.2
67.5°	264.6	258.6	250.6	249.9	253.2
70°	229.2	221.9	215.3	221.9	223.9
72.5°	195.9	191.3	185.3	193.9	197.9
75°	165.9	161.9	158.6	165.9	171.9
77.5°	138.6	134.6	134.6	142.6	147.9
80°	111.3	108.6	111.3	118.0	123.3
82.5°	85.3	83.3	86.6	93.3	96.6
85°	58.0	54.6	58.6	64.6	65.3
87.5°	27.3	26.7	29.3	33.3	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)