

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: P292959

Luminaire Tested: **24GR-LD5-30-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292959
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-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3138.0 lumens
Efficiency: N/A
Efficacy: 153.4 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

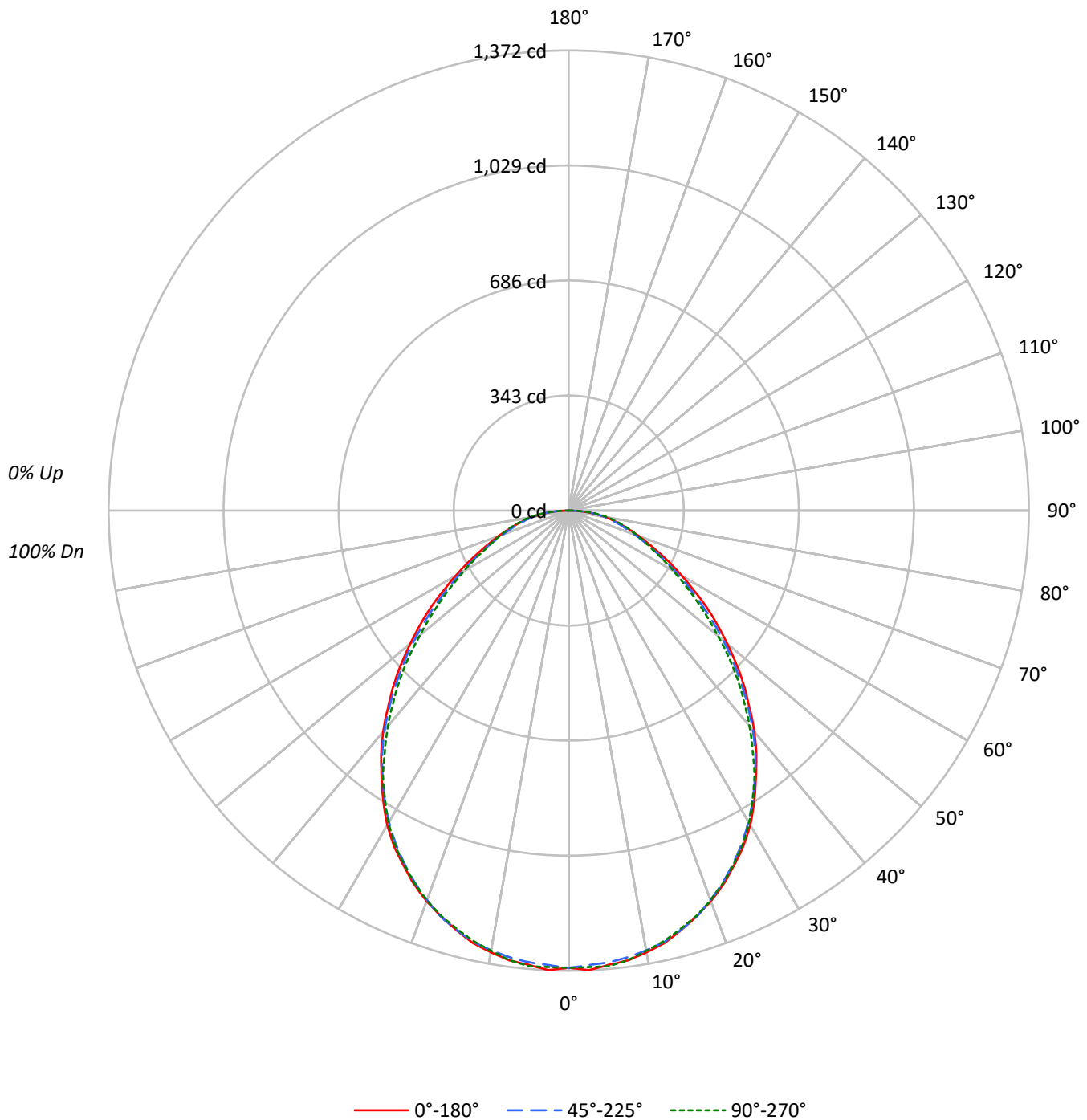
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		95	92	90		91	89	87
2	100	93	86	81	98	91	85	80		87	82	78		84	80	76		81	78	75
3	92	82	74	68	90	81	73	68		78	72	67		75	70	65		72	68	64
4	85	73	65	59	83	72	64	58		70	63	58		67	62	57		65	60	56
5	78	66	58	51	76	65	57	51		63	56	50		61	55	50		59	54	49
6	73	60	51	45	71	59	51	45		57	50	45		56	49	44		54	48	44
7	68	55	46	40	66	54	46	40		52	45	40		51	44	40		50	44	39
8	63	50	42	36	62	49	42	36		48	41	36		47	40	36		46	40	36
9	59	46	38	33	58	46	38	33		44	38	33		43	37	32		42	37	32
10	56	43	35	30	54	42	35	30		41	34	30		40	34	30		39	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1834	1834	1834
5°	1837	1826	1842
10°	1827	1819	1821
15°	1804	1802	1798
20°	1774	1770	1770
25°	1733	1723	1727
30°	1682	1665	1670
35°	1598	1590	1586
40°	1513	1499	1473
45°	1406	1382	1355
50°	1288	1260	1213
55°	1177	1124	1086
60°	1048	998	972
65°	944	894	882
70°	876	823	856
75°	838	801	868
80°	838	838	927
85°	869	880	979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	4.1
10°-20°	364.3	11.6
20°-30°	534.6	17.0
30°-40°	604.5	19.3
40°-50°	558.6	17.8
50°-60°	430.4	13.7
60°-70°	285.0	9.1
70°-80°	169.7	5.4
80°-90°	62.2	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°	1027.7	32.7
0°-40°	1632.1	52.0
0°-60°	2621.2	83.5
0°-90°	3138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1360	1360	1352	1353	1364	129
15°	1295	1292	1294	1293	1291	365
25°	1167	1164	1160	1159	1163	537
35°	973	972	968	964	966	609
45°	739	734	726	713	712	569
55°	502	491	479	466	463	447
65°	296	292	281	278	277	297
75°	161	157	154	161	167	172
85°	56	53	57	63	63	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.1	1363.1	1363.1	1363.1	1363.1
2.5°	1371.5	1364.4	1356.6	1356.6	1362.4
5°	1359.8	1359.8	1352.1	1352.7	1363.7
7.5°	1352.7	1348.8	1343.7	1343.7	1352.1
10°	1337.2	1333.9	1331.4	1330.1	1332.7
12.5°	1320.4	1315.2	1317.1	1315.2	1314.5
15°	1295.1	1292.5	1293.8	1293.2	1290.6
17.5°	1267.9	1266.6	1269.2	1264.7	1266.6
20°	1238.8	1234.9	1236.2	1233.6	1236.2
22.5°	1205.8	1203.2	1200.0	1196.7	1201.9
25°	1167.0	1163.7	1160.5	1159.2	1163.1
27.5°	1128.1	1122.9	1118.4	1117.1	1122.9
30°	1082.8	1077.0	1071.8	1070.5	1075.1
32.5°	1029.1	1027.8	1021.3	1018.7	1020.7
35°	972.8	971.5	968.3	963.7	965.7
37.5°	919.1	918.4	913.9	906.1	900.9
40°	861.5	856.9	853.7	842.7	838.8
42.5°	798.0	796.7	790.9	778.6	774.1
45°	739.1	734.0	726.2	713.3	712.0
47.5°	678.3	671.2	664.1	647.9	647.2
50°	615.5	610.3	601.9	585.7	579.3
52.5°	557.3	550.1	538.5	523.0	519.7
55°	501.6	491.2	479.0	466.0	462.8
57.5°	442.1	437.5	422.6	412.3	408.4
60°	389.6	385.8	370.9	361.2	361.2
62.5°	342.4	336.6	323.6	317.1	317.1
65°	296.4	291.9	280.9	278.3	277.0
67.5°	257.0	251.1	243.4	242.7	245.9
70°	222.6	215.5	209.1	215.5	217.5
72.5°	190.3	185.8	179.9	188.3	192.2
75°	161.2	157.3	154.0	161.2	167.0
77.5°	134.6	130.7	130.7	138.5	143.7
80°	108.1	105.5	108.1	114.6	119.7
82.5°	82.8	80.9	84.1	90.6	93.8
85°	56.3	53.1	57.0	62.8	63.4
87.5°	26.5	25.9	28.5	32.4	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)