

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: P292910

Luminaire Tested: **24GR-LD5-30-F1-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292910
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3048.0 lumens
Efficiency: N/A
Efficacy: 152.4 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

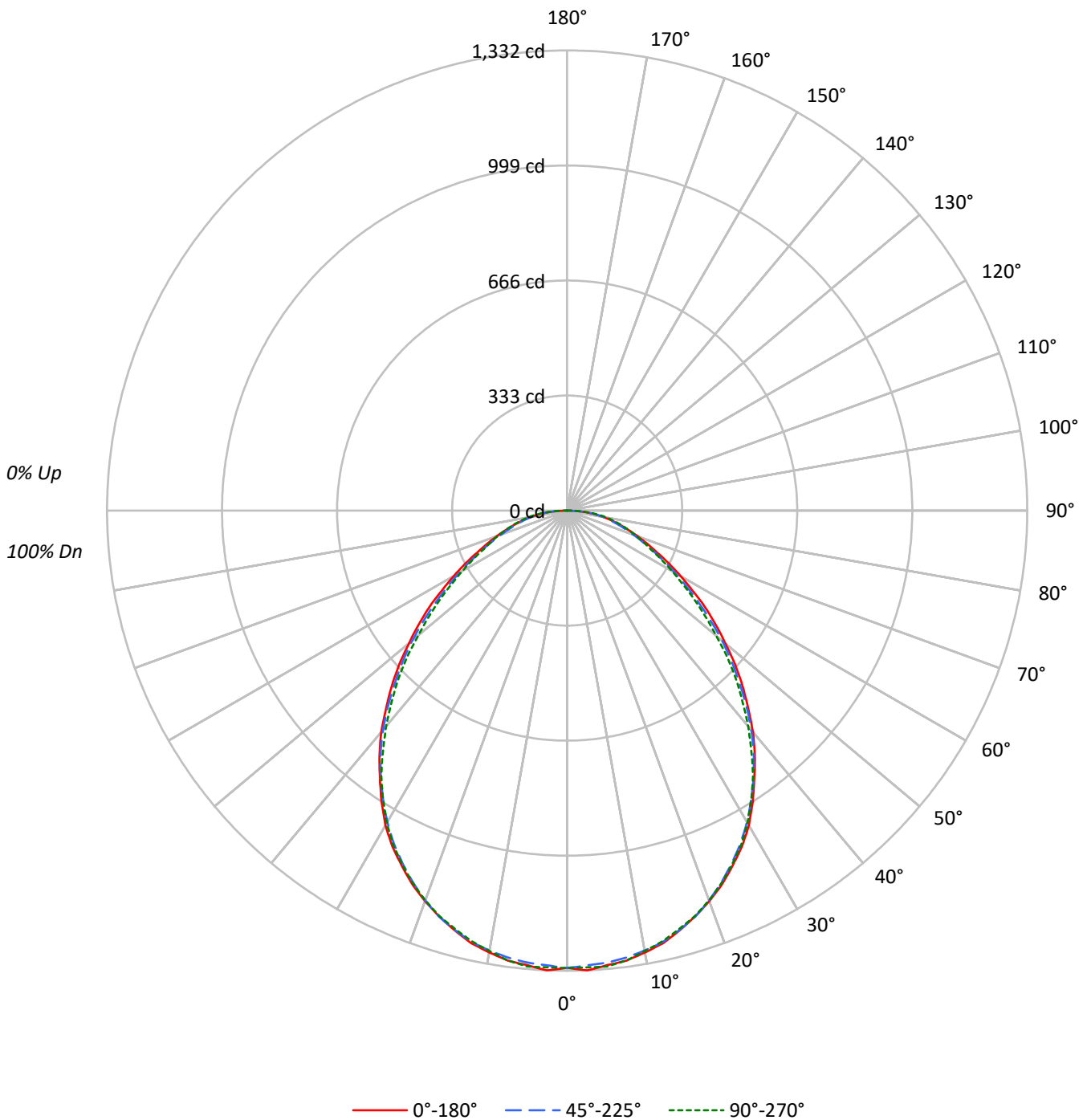
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1781	1781	1781
5°	1784	1774	1789
10°	1774	1767	1768
15°	1752	1751	1746
20°	1723	1719	1719
25°	1683	1673	1677
30°	1634	1617	1622
35°	1552	1545	1541
40°	1470	1456	1431
45°	1366	1342	1316
50°	1252	1224	1178
55°	1143	1091	1054
60°	1019	969	944
65°	917	869	857
70°	851	799	831
75°	814	778	843
80°	814	814	901
85°	844	854	951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	4.1
10°-20°	353.8	11.6
20°-30°	519.3	17.0
30°-40°	587.1	19.3
40°-50°	542.6	17.8
50°-60°	418.1	13.7
60°-70°	276.8	9.1
70°-80°	164.8	5.4
80°-90°	60.4	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°	998.2	32.7
0°-40°	1585.3	52.0
0°-60°	2546.0	83.5
0°-90°	3048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1321	1321	1313	1314	1325	126
15°	1258	1256	1257	1256	1254	355
25°	1134	1130	1127	1126	1130	522
35°	945	944	940	936	938	591
45°	718	713	705	693	692	553
55°	487	477	465	453	450	435
65°	288	284	273	270	269	289
75°	156	153	150	156	162	167
85°	55	52	55	61	62	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1324.0	1324.0	1324.0	1324.0	1324.0
2.5°	1332.2	1325.2	1317.7	1317.7	1323.4
5°	1320.8	1320.8	1313.3	1313.9	1324.6
7.5°	1313.9	1310.1	1305.1	1305.1	1313.3
10°	1298.8	1295.7	1293.2	1291.9	1294.4
12.5°	1282.5	1277.5	1279.3	1277.5	1276.8
15°	1258.0	1255.5	1256.7	1256.1	1253.6
17.5°	1231.6	1230.3	1232.8	1228.4	1230.3
20°	1203.3	1199.5	1200.8	1198.2	1200.8
22.5°	1171.2	1168.7	1165.6	1162.4	1167.4
25°	1133.5	1130.3	1127.2	1125.9	1129.7
27.5°	1095.8	1090.7	1086.3	1085.1	1090.7
30°	1051.8	1046.1	1041.1	1039.8	1044.2
32.5°	999.6	998.3	992.0	989.5	991.4
35°	944.9	943.6	940.5	936.1	938.0
37.5°	892.7	892.1	887.7	880.1	875.1
40°	836.8	832.4	829.2	818.5	814.8
42.5°	775.2	773.9	768.2	756.3	751.9
45°	717.9	712.9	705.4	692.8	691.5
47.5°	658.8	651.9	645.0	629.3	628.7
50°	597.9	592.8	584.7	568.9	562.7
52.5°	541.3	534.4	523.1	508.0	504.8
55°	487.2	477.2	465.2	452.6	449.5
57.5°	429.4	425.0	410.5	400.5	396.7
60°	378.5	374.7	360.2	350.8	350.8
62.5°	332.6	326.9	314.3	308.0	308.0
65°	287.9	283.5	272.8	270.3	269.1
67.5°	249.6	243.9	236.4	235.8	238.9
70°	216.3	209.3	203.1	209.3	211.2
72.5°	184.8	180.4	174.8	182.9	186.7
75°	156.5	152.8	149.6	156.5	162.2
77.5°	130.8	127.0	127.0	134.5	139.6
80°	105.0	102.5	105.0	111.3	116.3
82.5°	80.5	78.6	81.7	88.0	91.2
85°	54.7	51.6	55.3	61.0	61.6
87.5°	25.8	25.1	27.7	31.4	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)