

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: P292914

Luminaire Tested: **24GR-LD5-34-F1-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292914
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-LD5-34-F1-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3299.0 lumens
Efficiency: N/A
Efficacy: 143.6 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

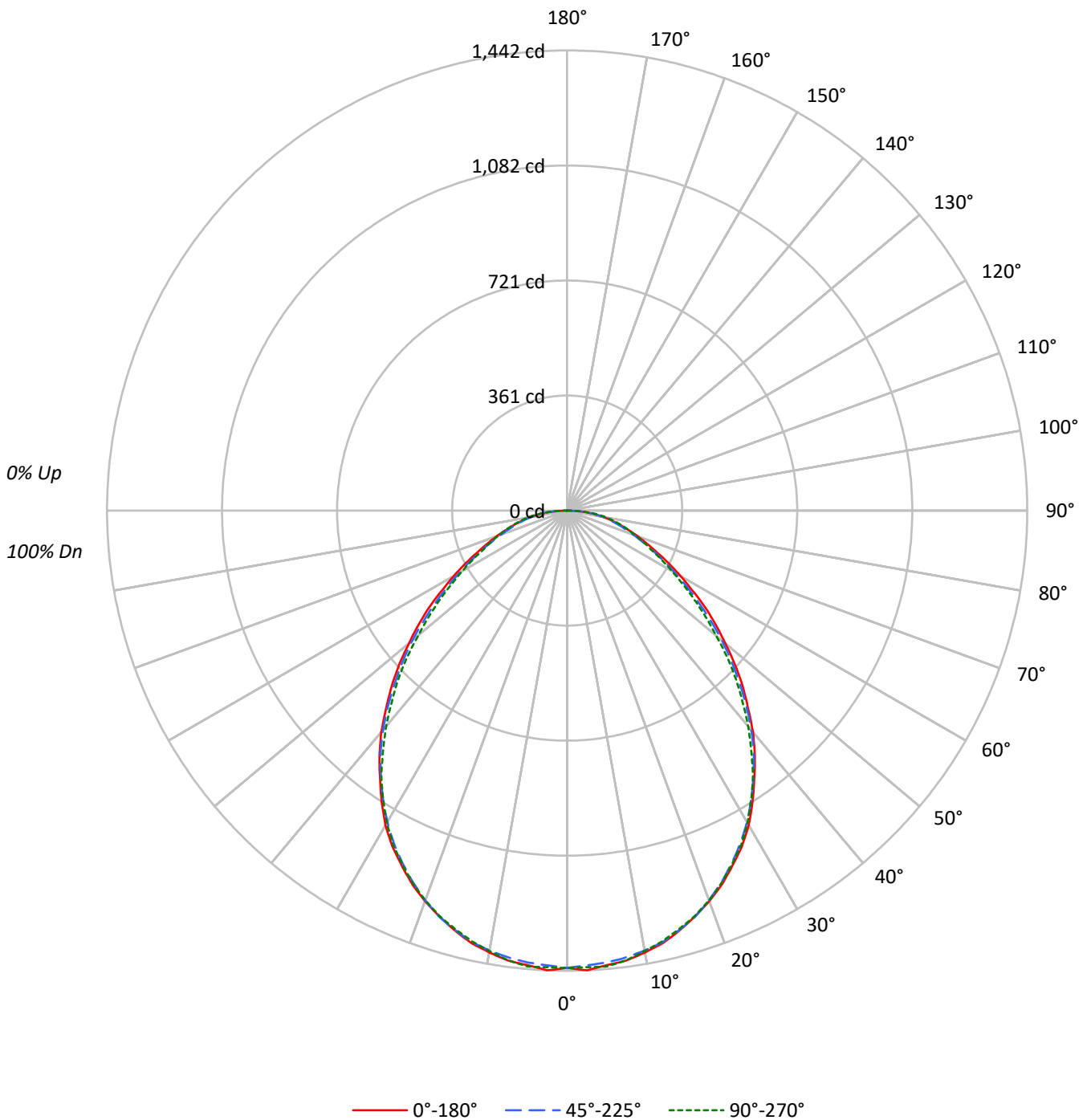
Input Watts (W): 22.971
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1928	1928	1928
5°	1931	1920	1936
10°	1921	1912	1914
15°	1897	1895	1890
20°	1865	1861	1861
25°	1821	1811	1815
30°	1769	1751	1756
35°	1680	1672	1668
40°	1591	1576	1549
45°	1479	1453	1424
50°	1355	1325	1275
55°	1237	1181	1141
60°	1102	1049	1022
65°	992	940	927
70°	921	865	899
75°	881	842	913
80°	880	880	976
85°	914	925	1030



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	4.1
10°-20°	383.0	11.6
20°-30°	562.1	17.0
30°-40°	635.5	19.3
40°-50°	587.3	17.8
50°-60°	452.5	13.7
60°-70°	299.6	9.1
70°-80°	178.4	5.4
80°-90°	65.3	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°	1080.4	32.7
0°-40°	1715.9	52.0
0°-60°	2755.6	83.5
0°-90°	3299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1430	1430	1421	1422	1434	136
15°	1362	1359	1360	1360	1357	384
25°	1227	1223	1220	1219	1223	565
35°	1023	1021	1018	1013	1015	640
45°	777	772	764	750	748	599
55°	527	516	504	490	486	470
65°	312	307	295	293	291	312
75°	169	165	162	169	176	181
85°	59	56	60	66	67	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.0	1433.0	1433.0	1433.0	1433.0
2.5°	1441.9	1434.4	1426.2	1426.2	1432.3
5°	1429.6	1429.6	1421.4	1422.1	1433.7
7.5°	1422.1	1418.0	1412.6	1412.6	1421.4
10°	1405.8	1402.4	1399.7	1398.3	1401.0
12.5°	1388.1	1382.7	1384.7	1382.7	1382.0
15°	1361.6	1358.8	1360.2	1359.5	1356.8
17.5°	1333.0	1331.6	1334.3	1329.6	1331.6
20°	1302.4	1298.3	1299.6	1296.9	1299.6
22.5°	1267.7	1264.9	1261.5	1258.1	1263.6
25°	1226.8	1223.4	1220.0	1218.7	1222.8
27.5°	1186.0	1180.6	1175.8	1174.4	1180.6
30°	1138.4	1132.3	1126.8	1125.4	1130.2
32.5°	1081.9	1080.5	1073.7	1071.0	1073.1
35°	1022.7	1021.3	1017.9	1013.2	1015.2
37.5°	966.2	965.5	960.8	952.6	947.2
40°	905.7	900.9	897.5	885.9	881.9
42.5°	839.0	837.6	831.5	818.6	813.8
45°	777.1	771.6	763.5	749.8	748.5
47.5°	713.1	705.6	698.1	681.1	680.4
50°	647.1	641.7	632.8	615.8	609.0
52.5°	585.9	578.4	566.1	549.8	546.4
55°	527.3	516.5	503.5	489.9	486.5
57.5°	464.7	460.0	444.3	433.4	429.4
60°	409.6	405.5	389.9	379.7	379.7
62.5°	360.0	353.8	340.2	333.4	333.4
65°	311.6	306.9	295.3	292.6	291.2
67.5°	270.1	264.0	255.8	255.2	258.6
70°	234.1	226.6	219.8	226.6	228.6
72.5°	200.0	195.3	189.2	198.0	202.1
75°	169.4	165.3	161.9	169.4	175.6
77.5°	141.5	137.4	137.4	145.6	151.1
80°	113.6	110.9	113.6	120.4	125.9
82.5°	87.1	85.1	88.5	95.3	98.7
85°	59.2	55.8	59.9	66.0	66.7
87.5°	27.9	27.2	29.9	34.0	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)