

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: P292957

Luminaire Tested: **24GR-LD5-30-F1-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292957
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3042.0 lumens
Efficiency: N/A
Efficacy: 150.0 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

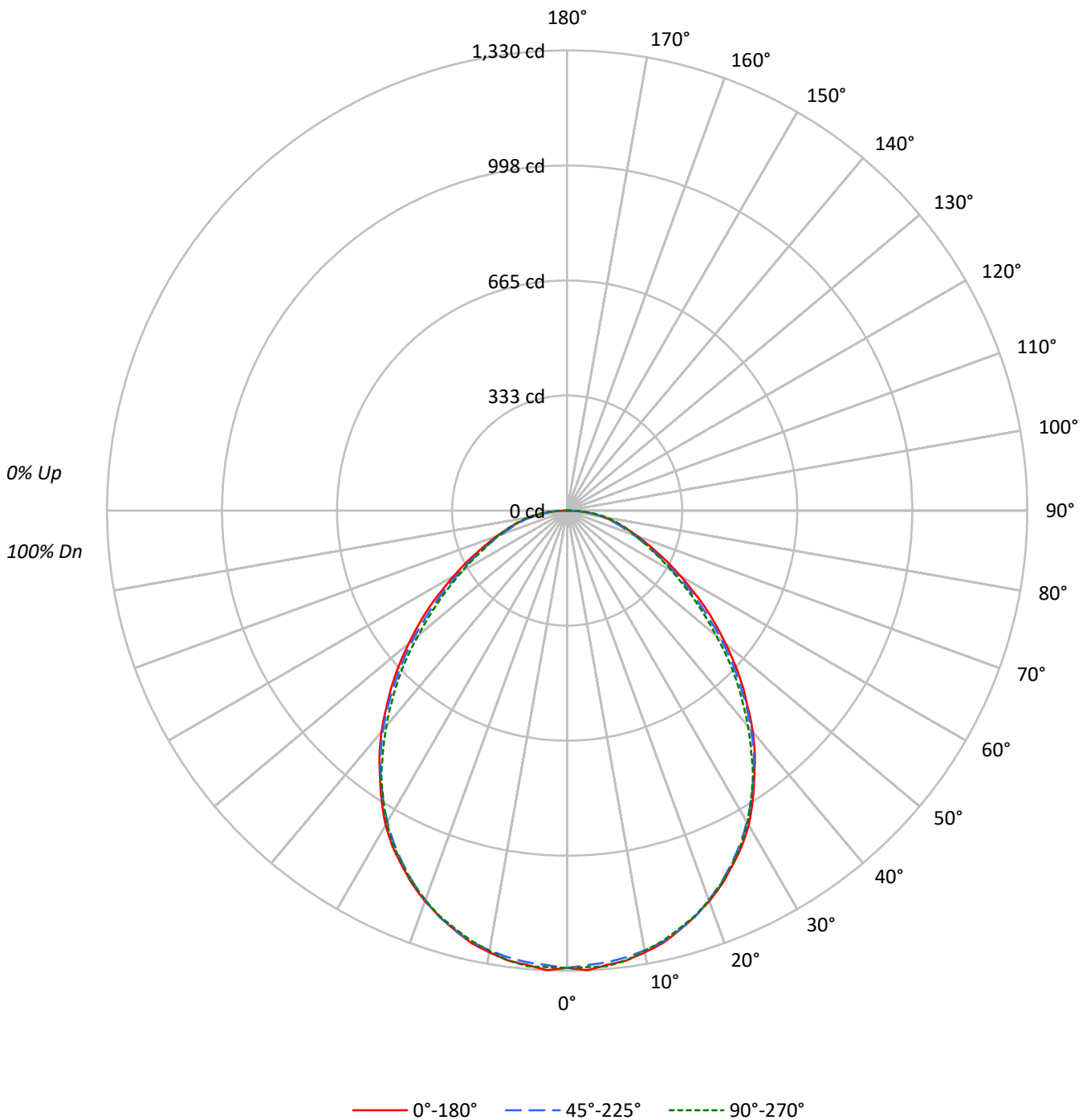
Input Watts (W): 20.274
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1778	1778	1778
5°	1780	1770	1786
10°	1771	1763	1765
15°	1749	1747	1743
20°	1719	1716	1716
25°	1680	1670	1674
30°	1631	1614	1619
35°	1549	1542	1538
40°	1467	1454	1428
45°	1363	1340	1313
50°	1249	1221	1176
55°	1141	1089	1052
60°	1016	967	942
65°	915	867	855
70°	849	797	829
75°	812	776	842
80°	812	812	900
85°	843	852	949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	4.1
10°-20°	353.1	11.6
20°-30°	518.3	17.0
30°-40°	586.0	19.3
40°-50°	541.5	17.8
50°-60°	417.2	13.7
60°-70°	276.3	9.1
70°-80°	164.5	5.4
80°-90°	60.3	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°	996.2	32.7
0°-40°	1582.2	52.0
0°-60°	2541.0	83.5
0°-90°	3042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1318	1318	1311	1311	1322	125
15°	1256	1253	1254	1254	1251	354
25°	1131	1128	1125	1124	1128	521
35°	943	942	939	934	936	590
45°	716	712	704	691	690	552
55°	486	476	464	452	449	434
65°	287	283	272	270	268	288
75°	156	152	149	156	162	167
85°	55	51	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°	1321.4	1321.4	1321.4	1321.4	1321.4
2.5°	1329.5	1322.6	1315.1	1315.1	1320.7
5°	1318.2	1318.2	1310.7	1311.3	1322.0
7.5°	1311.3	1307.6	1302.5	1302.5	1310.7
10°	1296.3	1293.1	1290.6	1289.4	1291.9
12.5°	1280.0	1274.9	1276.8	1274.9	1274.3
15°	1255.5	1253.0	1254.2	1253.6	1251.1
17.5°	1229.1	1227.9	1230.4	1226.0	1227.9
20°	1200.9	1197.1	1198.4	1195.9	1198.4
22.5°	1168.9	1166.4	1163.3	1160.1	1165.1
25°	1131.3	1128.1	1125.0	1123.7	1127.5
27.5°	1093.6	1088.6	1084.2	1082.9	1088.6
30°	1049.7	1044.0	1039.0	1037.8	1042.2
32.5°	997.6	996.4	990.1	987.6	989.5
35°	943.0	941.8	938.6	934.2	936.1
37.5°	891.0	890.3	885.9	878.4	873.4
40°	835.1	830.7	827.6	816.9	813.2
42.5°	773.6	772.4	766.7	754.8	750.4
45°	716.5	711.5	704.0	691.4	690.2
47.5°	657.5	650.6	643.7	628.1	627.4
50°	596.7	591.7	583.5	567.8	561.6
52.5°	540.2	533.3	522.0	507.0	503.8
55°	486.3	476.2	464.3	451.8	448.6
57.5°	428.5	424.1	409.7	399.7	395.9
60°	377.7	373.9	359.5	350.1	350.1
62.5°	331.9	326.3	313.7	307.4	307.4
65°	287.4	283.0	272.3	269.8	268.5
67.5°	249.1	243.4	235.9	235.3	238.4
70°	215.8	208.9	202.7	208.9	210.8
72.5°	184.5	180.1	174.4	182.6	186.3
75°	156.2	152.5	149.3	156.2	161.9
77.5°	130.5	126.7	126.7	134.3	139.3
80°	104.8	102.3	104.8	111.1	116.1
82.5°	80.3	78.4	81.6	87.8	91.0
85°	54.6	51.4	55.2	60.9	61.5
87.5°	25.7	25.1	27.6	31.4	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)