

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: P293211

Luminaire Tested: **24GR-LD5-30-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-F125-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 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): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

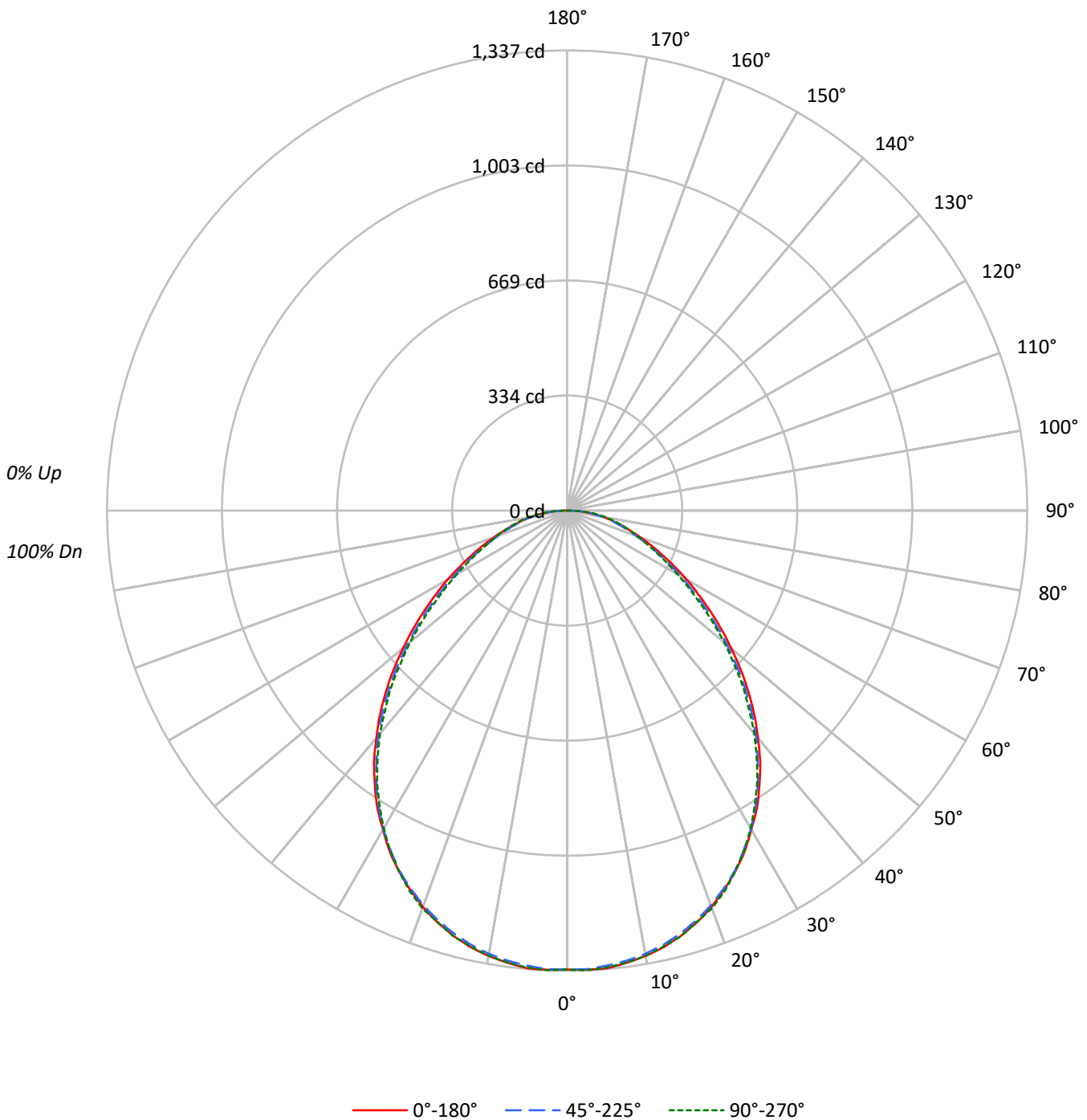
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	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	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1794	1794	1794
5°	1803	1793	1800
10°	1795	1787	1795
15°	1781	1772	1783
20°	1755	1748	1761
25°	1717	1713	1716
30°	1663	1660	1656
35°	1600	1588	1581
40°	1515	1497	1485
45°	1417	1391	1374
50°	1302	1267	1245
55°	1187	1144	1110
60°	1078	1020	994
65°	971	917	901
70°	889	832	855
75°	831	793	852
80°	824	810	890
85°	840	848	969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	4.0
10°-20°	358.8	11.4
20°-30°	530.1	16.9
30°-40°	602.7	19.2
40°-50°	562.8	17.9
50°-60°	437.7	13.9
60°-70°	290.4	9.3
70°-80°	168.1	5.4
80°-90°	61.1	1.9
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°	1015.2	32.4
0°-40°	1617.9	51.6
0°-60°	2618.4	83.4
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°	1334	1334	1334	1334	1334	
5°	1335	1328	1327	1330	1333	127
15°	1279	1272	1272	1271	1280	360
25°	1157	1152	1154	1151	1156	532
35°	974	969	967	960	963	608
45°	745	739	731	722	722	574
55°	506	499	488	475	473	454
65°	305	296	288	282	283	305
75°	160	156	152	159	164	171
85°	54	54	55	62	63	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.6	1333.6	1333.6	1333.6	1333.6
2.5°	1335.6	1331.7	1333.6	1332.2	1336.6
5°	1334.6	1327.8	1327.3	1329.7	1332.7
7.5°	1325.3	1318.0	1319.4	1319.4	1324.3
10°	1314.0	1306.7	1307.7	1308.1	1313.5
12.5°	1298.8	1291.5	1292.0	1291.5	1296.9
15°	1278.7	1272.3	1271.8	1271.4	1279.7
17.5°	1254.2	1245.4	1248.3	1248.8	1253.2
20°	1225.7	1218.9	1220.8	1220.3	1229.7
22.5°	1191.9	1187.0	1188.5	1187.5	1196.3
25°	1156.6	1151.7	1153.6	1151.2	1156.1
27.5°	1116.9	1113.4	1111.5	1110.0	1113.4
30°	1070.3	1068.3	1068.3	1061.9	1065.8
32.5°	1026.1	1019.7	1019.7	1017.3	1014.8
35°	974.1	969.2	966.8	959.9	962.8
37.5°	922.1	910.8	909.9	904.5	904.5
40°	862.3	855.9	852.5	846.6	845.6
42.5°	805.4	799.0	793.1	783.3	781.4
45°	744.6	738.7	730.8	721.5	722.0
47.5°	684.2	675.9	668.5	657.3	655.8
50°	621.9	616.1	605.3	595.5	595.0
52.5°	563.6	554.3	544.4	532.7	532.7
55°	506.2	498.8	487.5	474.8	473.3
57.5°	451.3	444.4	431.6	422.3	419.9
60°	400.7	390.9	379.2	371.3	369.3
62.5°	350.2	341.4	332.6	324.7	324.2
65°	305.1	295.8	287.9	282.5	283.0
67.5°	264.4	256.5	247.7	246.2	246.7
70°	226.1	217.8	211.4	214.8	217.3
72.5°	189.8	185.4	181.0	185.9	189.3
75°	159.9	156.0	152.5	159.4	163.8
77.5°	132.4	129.5	129.0	134.9	138.8
80°	106.4	103.0	104.5	111.3	114.8
82.5°	80.9	78.5	79.0	87.3	89.8
85°	54.4	53.5	54.9	62.3	62.8
87.5°	28.9	28.9	29.9	34.3	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)