

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: P293337

Luminaire Tested: **24GR-LD5-30-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293337
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-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2818.0 lumens
Efficiency: N/A
Efficacy: 137.7 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

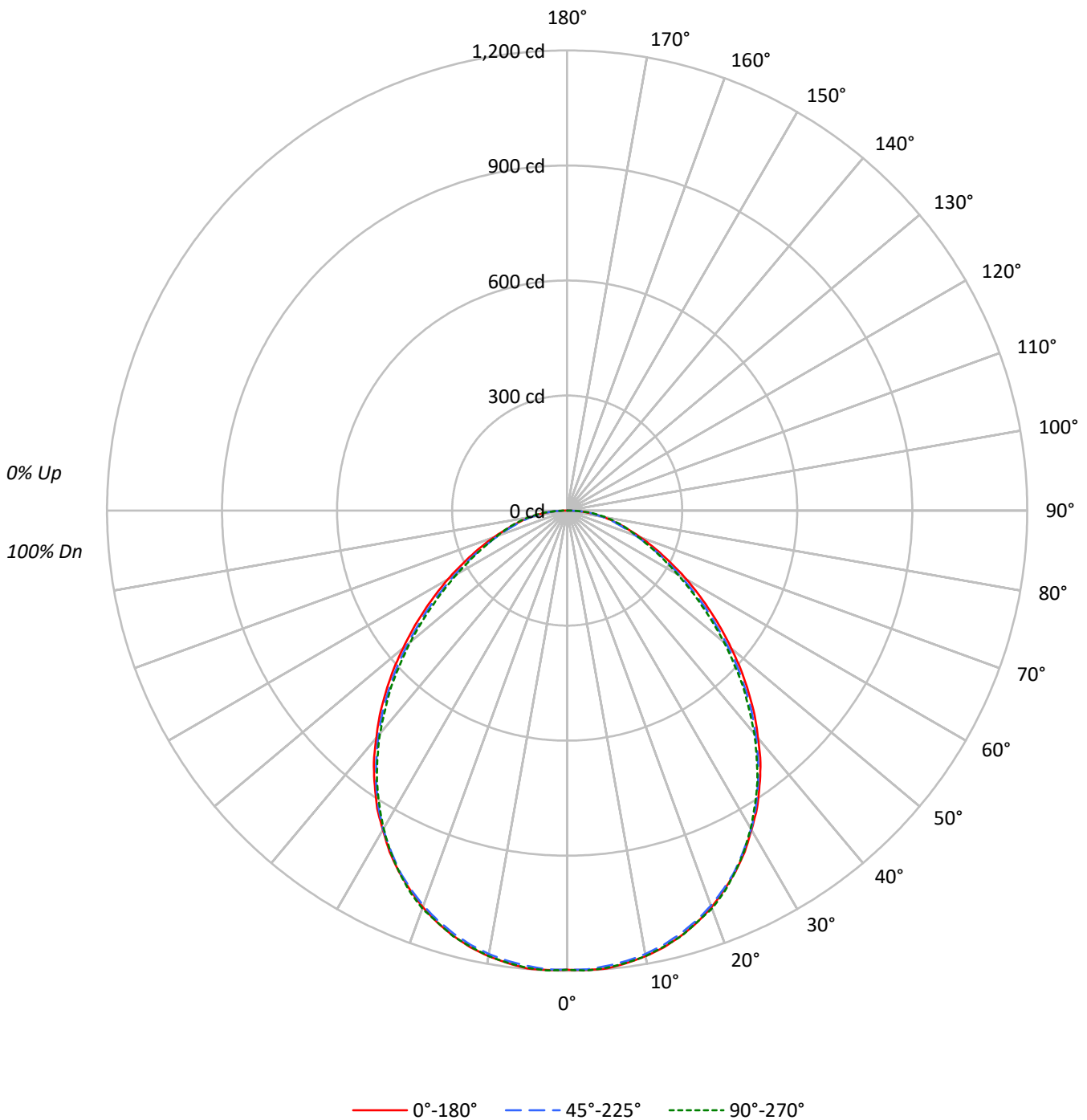
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1611	1611	1611
5°	1619	1610	1616
10°	1612	1604	1612
15°	1600	1591	1601
20°	1576	1570	1581
25°	1542	1538	1541
30°	1493	1491	1487
35°	1437	1426	1420
40°	1360	1345	1334
45°	1272	1249	1234
50°	1169	1138	1118
55°	1066	1027	997
60°	968	916	893
65°	872	823	809
70°	799	747	768
75°	747	712	765
80°	741	727	799
85°	755	761	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	4.0
10°-20°	322.2	11.4
20°-30°	476.1	16.9
30°-40°	541.2	19.2
40°-50°	505.4	17.9
50°-60°	393.1	13.9
60°-70°	260.8	9.3
70°-80°	150.9	5.4
80°-90°	54.9	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°	911.7	32.4
0°-40°	1452.9	51.6
0°-60°	2351.4	83.4
0°-90°	2818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1198	1192	1192	1194	1197	114
15°	1148	1143	1142	1142	1149	324
25°	1039	1034	1036	1034	1038	478
35°	875	870	868	862	865	546
45°	669	663	656	648	648	515
55°	455	448	438	426	425	408
65°	274	266	259	254	254	274
75°	144	140	137	143	147	154
85°	49	48	49	56	56	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1197.6	1197.6	1197.6	1197.6	<i>1197.6</i>
2.5°	<i>1199.4</i>	<i>1195.9</i>	<i>1197.6</i>	<i>1196.3</i>	<i>1200.3</i>
5°	1198.5	1192.4	1191.9	1194.1	<i>1196.8</i>
7.5°	1190.2	1183.6	1184.9	1184.9	<i>1189.3</i>
10°	1180.0	1173.4	1174.3	1174.7	<i>1179.6</i>
12.5°	1166.4	1159.8	1160.2	1159.8	<i>1164.6</i>
15°	1148.3	1142.6	1142.1	1141.7	<i>1149.2</i>
17.5°	1126.3	1118.4	1121.0	1121.4	<i>1125.4</i>
20°	1100.7	1094.6	1096.3	1095.9	<i>1104.3</i>
22.5°	1070.4	1065.9	1067.3	1066.4	<i>1074.3</i>
25°	1038.6	1034.2	1036.0	1033.8	<i>1038.2</i>
27.5°	1003.0	999.9	998.1	996.8	<i>999.9</i>
30°	961.1	959.4	959.4	953.6	<i>957.2</i>
32.5°	921.5	915.7	915.7	913.5	<i>911.3</i>
35°	874.8	870.4	868.2	862.0	<i>864.7</i>
37.5°	828.1	818.0	817.1	812.2	<i>812.2</i>
40°	774.4	768.6	765.5	760.3	<i>759.4</i>
42.5°	723.3	717.5	712.2	703.4	<i>701.7</i>
45°	668.6	663.4	656.3	647.9	<i>648.4</i>
47.5°	614.5	607.0	600.4	590.2	<i>588.9</i>
50°	558.5	553.2	543.5	534.7	<i>534.3</i>
52.5°	506.1	497.7	488.9	478.4	<i>478.4</i>
55°	454.6	448.0	437.8	426.4	<i>425.1</i>
57.5°	405.2	399.1	387.6	379.2	<i>377.0</i>
60°	359.9	351.1	340.5	333.4	<i>331.7</i>
62.5°	314.5	306.6	298.6	291.6	<i>291.2</i>
65°	274.0	265.6	258.6	253.7	<i>254.2</i>
67.5°	237.4	230.4	222.4	221.1	<i>221.6</i>
70°	203.1	195.6	189.8	192.9	<i>195.1</i>
72.5°	170.5	166.5	162.5	166.9	<i>170.0</i>
75°	143.6	140.1	137.0	143.2	<i>147.1</i>
77.5°	118.9	116.3	115.8	121.1	<i>124.7</i>
80°	95.6	92.5	93.8	100.0	<i>103.1</i>
82.5°	72.7	70.5	70.9	78.4	<i>80.6</i>
85°	48.9	48.0	49.3	55.9	<i>56.4</i>
87.5°	26.0	26.0	26.9	30.8	<i>29.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)