

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: P293341

Luminaire Tested: **24GR-LD5-34-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293341
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-LD5-34-F125-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2736.0 lumens
Efficiency: N/A
Efficacy: 119.6 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

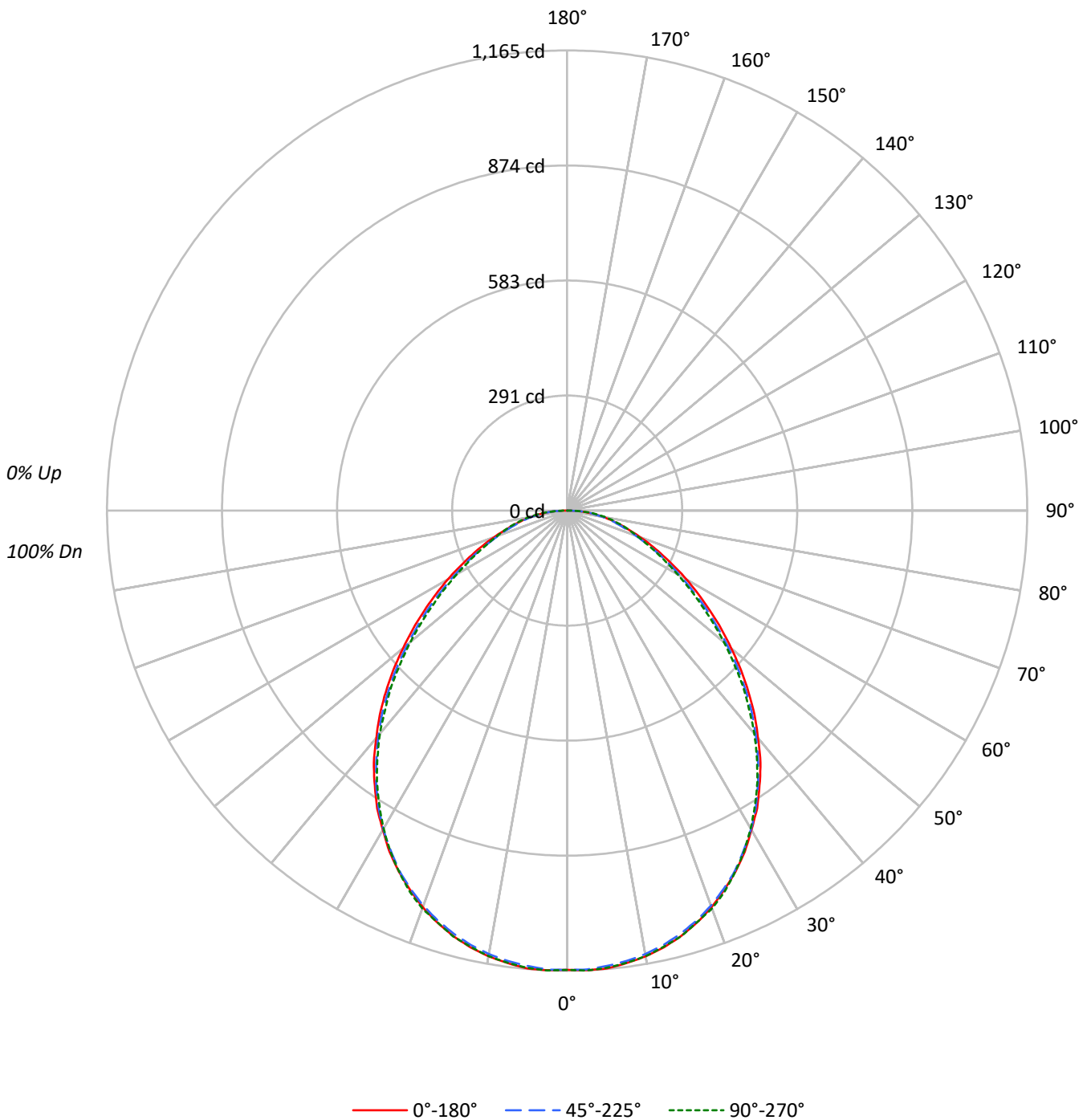
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66		75	70	65		72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57		67	61	57		65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50		61	55	50		59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44		55	49	44		54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40		51	44	39		49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36		47	40	36		46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32		43	37	32		42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30		40	34	29		39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1565	1565	1565
5°	1572	1563	1569
10°	1565	1558	1565
15°	1553	1545	1554
20°	1530	1524	1535
25°	1497	1493	1496
30°	1450	1447	1444
35°	1395	1384	1379
40°	1320	1306	1295
45°	1235	1212	1198
50°	1135	1105	1086
55°	1035	997	968
60°	940	890	866
65°	847	799	786
70°	775	725	745
75°	725	691	742
80°	719	706	776
85°	733	739	844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	4.0
10°-20°	312.9	11.4
20°-30°	462.2	16.9
30°-40°	525.5	19.2
40°-50°	490.7	17.9
50°-60°	381.6	13.9
60°-70°	253.2	9.3
70°-80°	146.5	5.4
80°-90°	53.3	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°	885.1	32.4
0°-40°	1410.6	51.6
0°-60°	2283.0	83.4
0°-90°	2736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1164	1158	1157	1159	1162	110
15°	1115	1109	1109	1108	1116	314
25°	1008	1004	1006	1004	1008	464
35°	849	845	843	837	840	530
45°	649	644	637	629	630	500
55°	441	435	425	414	413	396
65°	266	258	251	246	247	266
75°	139	136	133	139	143	149
85°	48	47	48	54	55	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.8	1162.8	1162.8	1162.8	1162.8
2.5°	1164.5	1161.1	1162.8	1161.5	1165.4
5°	1163.7	1157.7	1157.2	1159.4	1161.9
7.5°	1155.5	1149.1	1150.4	1150.4	1154.7
10°	1145.7	1139.3	1140.1	1140.6	1145.3
12.5°	1132.4	1126.0	1126.4	1126.0	1130.7
15°	1114.9	1109.3	1108.9	1108.5	1115.8
17.5°	1093.5	1085.8	1088.4	1088.8	1092.7
20°	1068.7	1062.7	1064.4	1064.0	1072.1
22.5°	1039.2	1034.9	1036.2	1035.4	1043.1
25°	1008.4	1004.1	1005.8	1003.7	1008.0
27.5°	973.8	970.8	969.1	967.8	970.8
30°	933.1	931.4	931.4	925.9	929.3
32.5°	894.7	889.1	889.1	887.0	884.8
35°	849.3	845.1	842.9	836.9	839.5
37.5°	804.0	794.2	793.3	788.6	788.6
40°	751.8	746.3	743.3	738.1	737.3
42.5°	702.2	696.7	691.5	683.0	681.3
45°	649.2	644.1	637.2	629.1	629.5
47.5°	596.6	589.3	582.9	573.1	571.8
50°	542.3	537.1	527.7	519.2	518.7
52.5°	491.4	483.3	474.7	464.4	464.4
55°	441.3	434.9	425.1	414.0	412.7
57.5°	393.4	387.5	376.3	368.2	366.1
60°	349.4	340.8	330.6	323.7	322.0
62.5°	305.3	297.6	290.0	283.1	282.7
65°	266.0	257.9	251.0	246.3	246.8
67.5°	230.5	223.7	216.0	214.7	215.1
70°	197.1	189.9	184.3	187.3	189.5
72.5°	165.5	161.7	157.8	162.1	165.1
75°	139.4	136.0	133.0	139.0	142.8
77.5°	115.5	112.9	112.5	117.6	121.0
80°	92.8	89.8	91.1	97.1	100.1
82.5°	70.6	68.4	68.9	76.1	78.3
85°	47.5	46.6	47.9	54.3	54.7
87.5°	25.2	25.2	26.1	29.9	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)