

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: P293335

Luminaire Tested: **24GR-LD5-30-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293335
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2692.0 lumens
Efficiency: N/A
Efficacy: 132.8 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

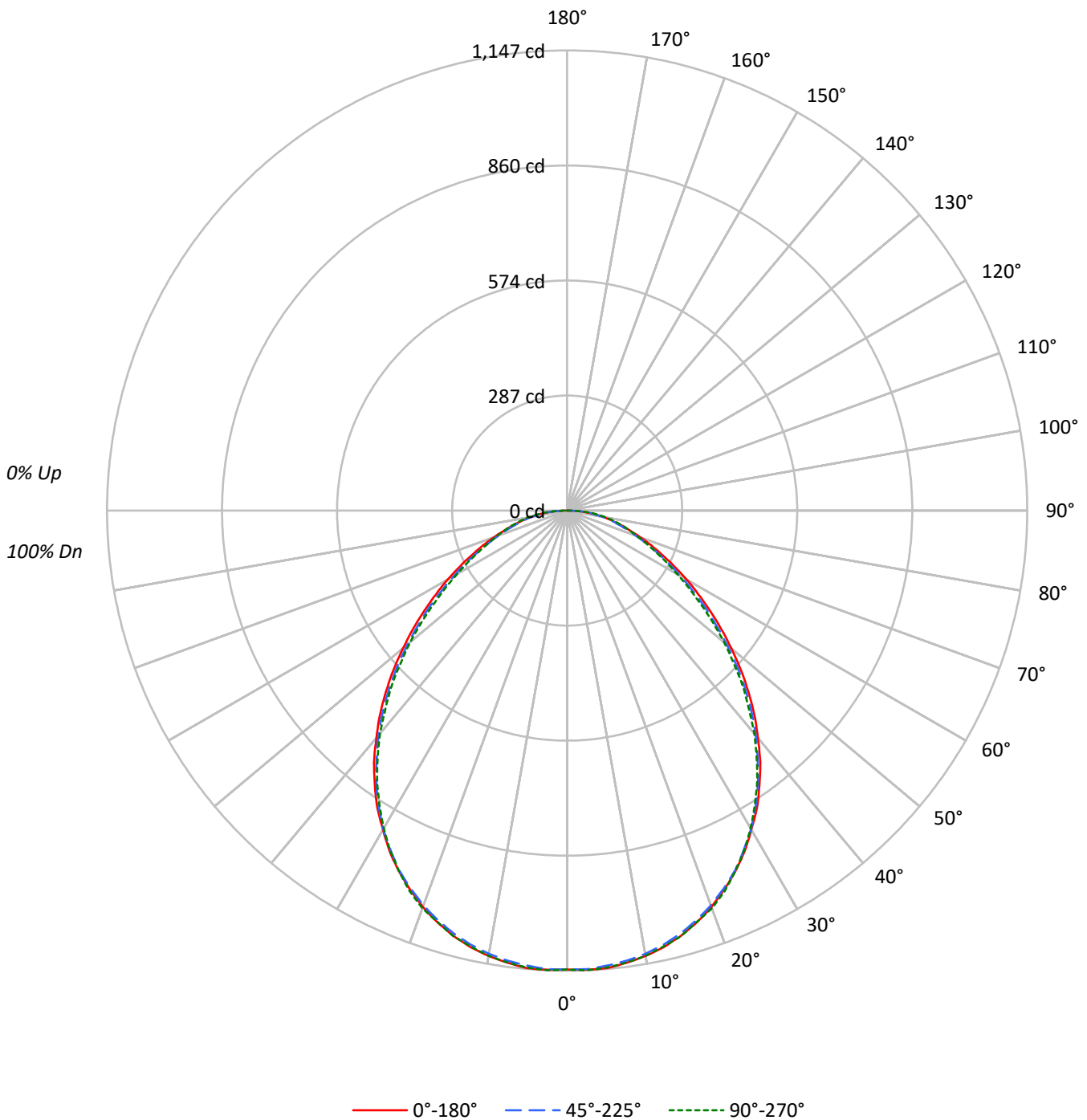
Input Watts (W): 20.274
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1539	1539	1539
5°	1546	1538	1544
10°	1540	1533	1539
15°	1528	1520	1529
20°	1506	1500	1510
25°	1473	1469	1472
30°	1426	1424	1421
35°	1373	1362	1357
40°	1299	1284	1274
45°	1215	1193	1179
50°	1117	1087	1068
55°	1019	981	953
60°	925	875	853
65°	833	786	773
70°	763	714	733
75°	713	680	730
80°	707	694	763
85°	721	727	832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	4.0
10°-20°	307.8	11.4
20°-30°	454.8	16.9
30°-40°	517.0	19.2
40°-50°	482.8	17.9
50°-60°	375.5	13.9
60°-70°	249.2	9.3
70°-80°	144.2	5.4
80°-90°	52.4	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°	870.9	32.4
0°-40°	1387.9	51.6
0°-60°	2246.3	83.4
0°-90°	2692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1145	1139	1139	1141	1143	109
15°	1097	1092	1091	1091	1098	309
25°	992	988	990	988	992	456
35°	836	832	829	824	826	522
45°	639	634	627	619	619	492
55°	434	428	418	407	406	389
65°	262	254	247	242	243	262
75°	137	134	131	137	140	147
85°	47	46	47	53	54	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1144.1	1144.1	1144.1	1144.1	1144.1
2.5°	1145.8	1142.4	1144.1	1142.8	1146.6
5°	1144.9	1139.1	1138.6	1140.7	1143.3
7.5°	1136.9	1130.6	1131.9	1131.9	1136.1
10°	1127.3	1121.0	1121.8	1122.2	1126.8
12.5°	1114.2	1107.9	1108.3	1107.9	1112.5
15°	1097.0	1091.5	1091.1	1090.7	1097.8
17.5°	1075.9	1068.4	1070.9	1071.3	1075.1
20°	1051.5	1045.6	1047.3	1046.9	1054.9
22.5°	1022.5	1018.3	1019.5	1018.7	1026.3
25°	992.2	988.0	989.7	987.6	991.8
27.5°	958.1	955.2	953.5	952.2	955.2
30°	918.1	916.5	916.5	911.0	914.4
32.5°	880.3	874.8	874.8	872.7	870.6
35°	835.7	831.5	829.4	823.5	826.0
37.5°	791.1	781.4	780.5	775.9	775.9
40°	739.7	734.3	731.3	726.3	725.4
42.5°	690.9	685.4	680.4	672.0	670.3
45°	638.7	633.7	627.0	619.0	619.4
47.5°	587.0	579.8	573.5	563.8	562.6
50°	533.5	528.5	519.2	510.8	510.4
52.5°	483.5	475.5	467.1	457.0	457.0
55°	434.2	427.9	418.3	407.3	406.1
57.5°	387.1	381.2	370.3	362.3	360.2
60°	343.8	335.4	325.3	318.5	316.8
62.5°	300.4	292.9	285.3	278.6	278.1
65°	261.7	253.7	247.0	242.4	242.8
67.5°	226.8	220.1	212.5	211.2	211.7
70°	194.0	186.8	181.4	184.3	186.4
72.5°	162.8	159.1	155.3	159.5	162.4
75°	137.2	133.8	130.9	136.8	140.5
77.5°	113.6	111.1	110.7	115.7	119.1
80°	91.3	88.4	89.6	95.5	98.5
82.5°	69.4	67.3	67.7	74.9	77.0
85°	46.7	45.9	47.1	53.4	53.9
87.5°	24.8	24.8	25.7	29.5	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)