

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: P293217

Luminaire Tested: **24GR-LD5-34-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293217
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-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3410.0 lumens
Efficiency: N/A
Efficacy: 147.9 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

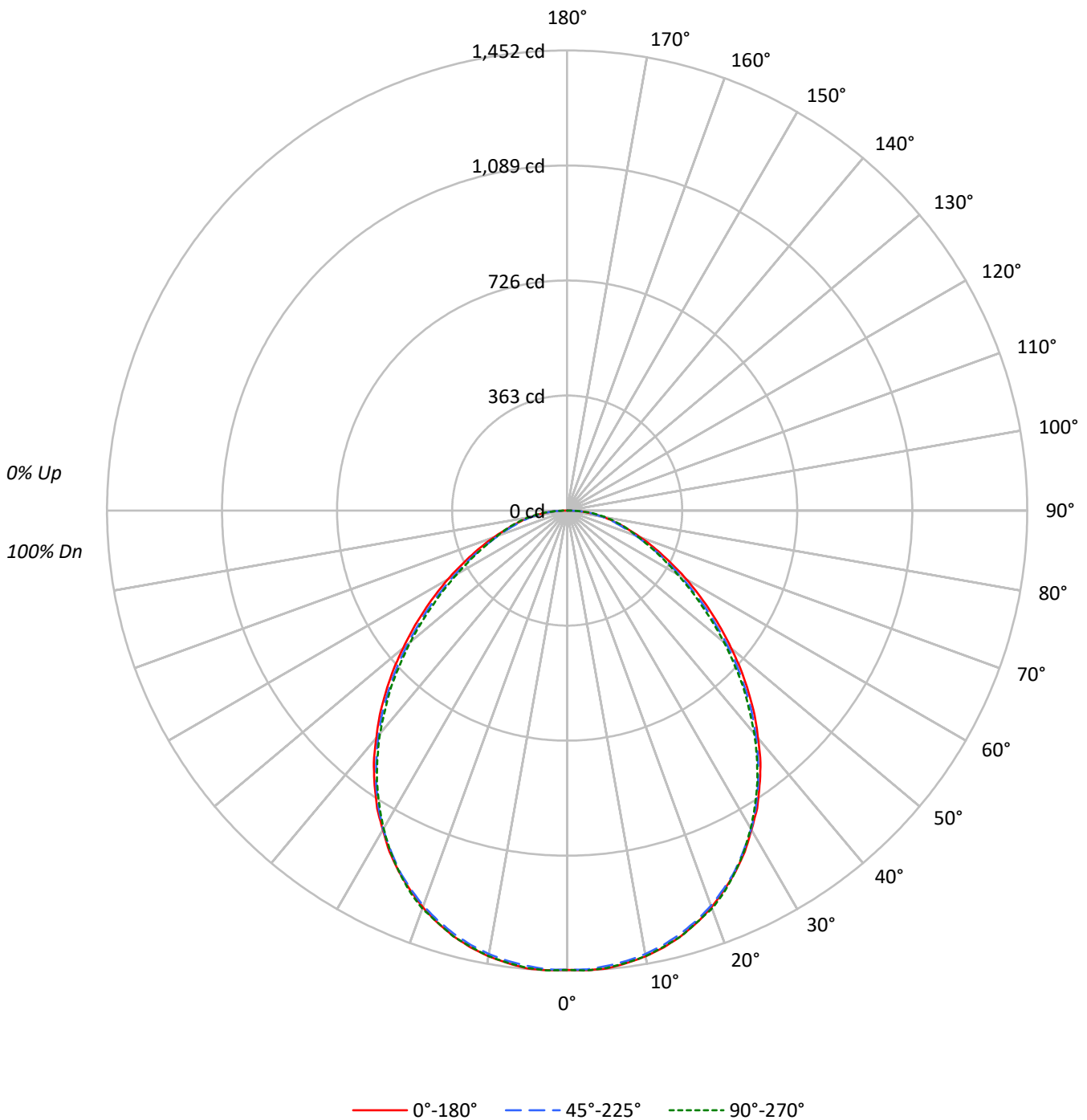
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1950	1950	1950
5°	1959	1948	1956
10°	1951	1941	1950
15°	1936	1925	1937
20°	1907	1900	1913
25°	1866	1861	1865
30°	1807	1804	1799
35°	1739	1726	1719
40°	1646	1627	1614
45°	1540	1511	1493
50°	1415	1377	1353
55°	1290	1243	1207
60°	1172	1109	1080
65°	1055	996	979
70°	967	904	929
75°	904	862	925
80°	896	879	966
85°	914	922	1053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	4.0
10°-20°	389.9	11.4
20°-30°	576.1	16.9
30°-40°	654.9	19.2
40°-50°	611.6	17.9
50°-60°	475.6	13.9
60°-70°	315.6	9.3
70°-80°	182.6	5.4
80°-90°	66.4	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°	1103.2	32.4
0°-40°	1758.1	51.6
0°-60°	2845.4	83.4
0°-90°	3410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1449	1449	1449	1449	1449	
5°	1450	1443	1442	1445	1448	138
15°	1390	1383	1382	1382	1391	391
25°	1257	1252	1254	1251	1256	578
35°	1059	1053	1051	1043	1046	661
45°	809	803	794	784	785	623
55°	550	542	530	516	514	493
65°	332	321	313	307	308	331
75°	174	170	166	173	178	186
85°	59	58	60	68	68	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1449.2	1449.2	1449.2	1449.2	1449.2
2.5°	1451.4	1447.1	1449.2	1447.7	1452.4
5°	1450.3	1442.9	1442.3	1445.0	1448.2
7.5°	1440.2	1432.2	1433.8	1433.8	1439.1
10°	1427.9	1419.9	1421.0	1421.5	1427.4
12.5°	1411.4	1403.4	1403.9	1403.4	1409.3
15°	1389.6	1382.6	1382.1	1381.6	1390.6
17.5°	1362.9	1353.3	1356.5	1357.0	1361.8
20°	1332.0	1324.5	1326.7	1326.1	1336.3
22.5°	1295.2	1289.9	1291.5	1290.4	1300.0
25°	1256.8	1251.5	1253.6	1251.0	1256.3
27.5°	1213.7	1209.9	1207.8	1206.2	1209.9
30°	1163.0	1160.9	1160.9	1154.0	1158.2
32.5°	1115.1	1108.1	1108.1	1105.5	1102.8
35°	1058.6	1053.2	1050.6	1043.1	1046.3
37.5°	1002.1	989.8	988.7	982.9	982.9
40°	937.0	930.1	926.4	920.0	918.9
42.5°	875.2	868.3	861.9	851.2	849.1
45°	809.1	802.7	794.2	784.1	784.6
47.5°	743.5	734.5	726.5	714.2	712.6
50°	675.9	669.5	657.7	647.1	646.5
52.5°	612.4	602.3	591.6	578.8	578.8
55°	550.1	542.1	529.8	516.0	514.4
57.5°	490.4	482.9	469.0	458.9	456.3
60°	435.5	424.8	412.0	403.5	401.4
62.5°	380.6	371.0	361.4	352.9	352.3
65°	331.5	321.4	312.9	307.0	307.5
67.5°	287.3	278.8	269.2	267.6	268.1
70°	245.7	236.7	229.7	233.5	236.1
72.5°	206.3	201.5	196.7	202.0	205.7
75°	173.8	169.5	165.8	173.2	178.0
77.5°	143.9	140.7	140.2	146.6	150.8
80°	115.7	111.9	113.5	121.0	124.7
82.5°	87.9	85.3	85.8	94.9	97.5
85°	59.2	58.1	59.7	67.7	68.2
87.5°	31.4	31.4	32.5	37.3	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)