

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: P293166

Luminaire Tested: **24GR-LD5-34-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293166  
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-L83050-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3299.0 lumens  
Efficiency: N/A  
Efficacy: 143.6 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

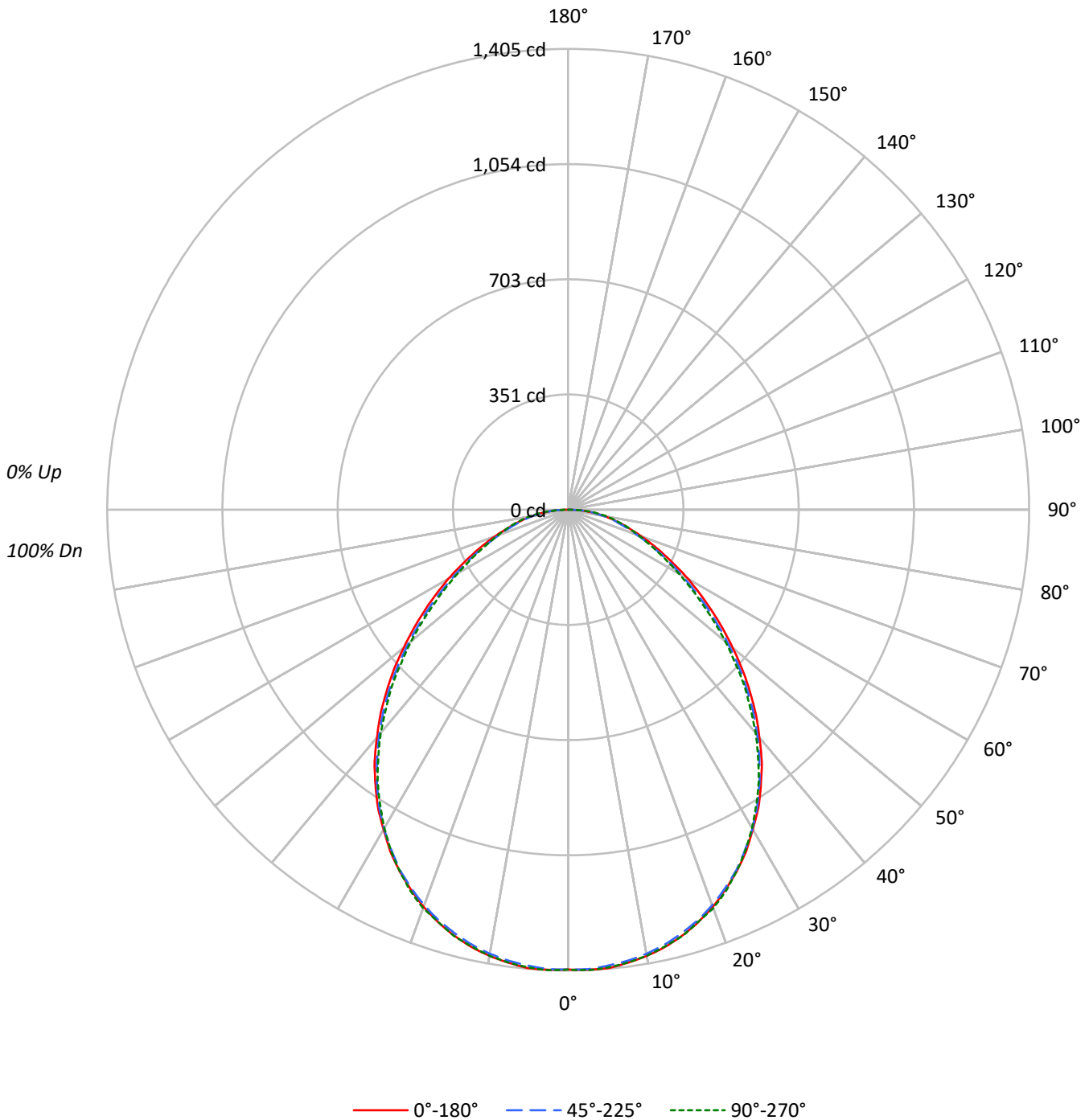
Input Watts (W): 22.971  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1887	1887	1887
5°	1895	1885	1892
10°	1887	1878	1887
15°	1873	1863	1874
20°	1845	1838	1851
25°	1805	1801	1804
30°	1748	1745	1741
35°	1682	1669	1663
40°	1592	1574	1561
45°	1490	1462	1444
50°	1369	1332	1309
55°	1248	1202	1167
60°	1134	1073	1045
65°	1021	964	947
70°	935	874	899
75°	874	834	895
80°	867	851	935
85°	883	892	1019



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.7	4.0
10°-20°	377.3	11.4
20°-30°	557.3	16.9
30°-40°	633.6	19.2
40°-50°	591.7	17.9
50°-60°	460.2	13.9
60°-70°	305.3	9.3
70°-80°	176.7	5.4
80°-90°	64.3	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°	1067.3	32.4
0°-40°	1700.9	51.6
0°-60°	2752.7	83.4
0°-90°	3299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3299.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1402	1402	1402	1402	1402	
5°	1403	1396	1395	1398	1401	133
15°	1344	1338	1337	1337	1345	379
25°	1216	1211	1213	1210	1215	559
35°	1024	1019	1016	1009	1012	639
45°	783	777	768	758	759	603
55°	532	524	513	499	498	477
65°	321	311	303	297	298	321
75°	168	164	160	168	172	180
85°	57	56	58	66	66	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1402.1	1402.1	1402.1	1402.1	1402.1
2.5°	1404.1	1400.0	1402.1	1400.5	1405.2
5°	1403.1	1395.9	1395.4	1397.9	1401.0
7.5°	1393.3	1385.6	1387.1	1387.1	1392.3
10°	1381.4	1373.7	1374.7	1375.3	1380.9
12.5°	1365.5	1357.7	1358.2	1357.7	1363.4
15°	1344.3	1337.6	1337.1	1336.6	1345.4
17.5°	1318.5	1309.3	1312.4	1312.9	1317.5
20°	1288.6	1281.4	1283.5	1283.0	1292.8
22.5°	1253.0	1247.9	1249.4	1248.4	1257.7
25°	1215.9	1210.8	1212.8	1210.2	1215.4
27.5°	1174.2	1170.5	1168.5	1166.9	1170.5
30°	1125.2	1123.1	1123.1	1116.4	1120.5
32.5°	1078.8	1072.1	1072.1	1069.5	1066.9
35°	1024.1	1018.9	1016.4	1009.1	1012.2
37.5°	969.4	957.6	956.5	950.9	950.9
40°	906.5	899.8	896.2	890.0	889.0
42.5°	846.7	840.0	833.8	823.5	821.4
45°	782.8	776.6	768.3	758.5	759.0
47.5°	719.3	710.6	702.8	691.0	689.4
50°	653.9	647.7	636.3	626.0	625.5
52.5°	592.5	582.7	572.4	560.0	560.0
55°	532.2	524.4	512.6	499.2	497.6
57.5°	474.4	467.2	453.8	444.0	441.4
60°	421.3	411.0	398.6	390.4	388.3
62.5°	368.2	358.9	349.6	341.4	340.9
65°	320.7	310.9	302.7	297.0	297.5
67.5°	277.9	269.7	260.4	258.9	259.4
70°	237.7	229.0	222.2	225.9	228.4
72.5°	199.6	194.9	190.3	195.4	199.0
75°	168.1	164.0	160.4	167.6	172.2
77.5°	139.2	136.1	135.6	141.8	145.9
80°	111.9	108.3	109.8	117.1	120.7
82.5°	85.1	82.5	83.0	91.8	94.4
85°	57.2	56.2	57.8	65.5	66.0
87.5°	30.4	30.4	31.5	36.1	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)