

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: P293219

Luminaire Tested: **24GR-LD5-34-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293219
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-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3546.0 lumens
Efficiency: N/A
Efficacy: 151.3 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

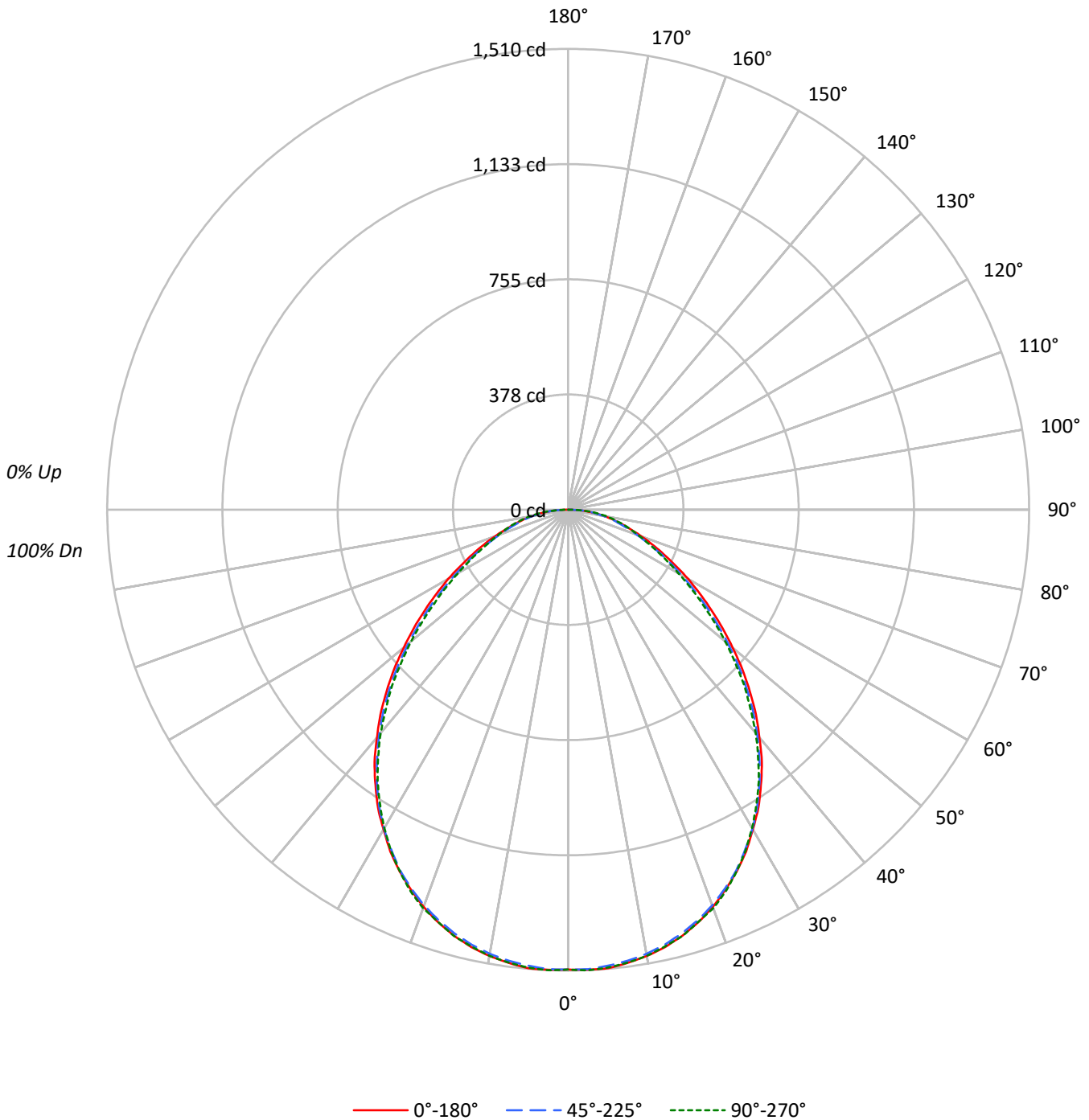
Input Watts (W): 23.436
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2028	2028	2028
5°	2037	2026	2034
10°	2029	2019	2028
15°	2013	2002	2014
20°	1983	1975	1990
25°	1940	1935	1939
30°	1879	1876	1871
35°	1808	1794	1787
40°	1711	1692	1678
45°	1601	1572	1553
50°	1471	1432	1407
55°	1342	1292	1255
60°	1218	1153	1123
65°	1098	1036	1018
70°	1005	940	966
75°	939	896	962
80°	932	915	1005
85°	949	959	1095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	4.0
10°-20°	405.5	11.4
20°-30°	599.0	16.9
30°-40°	681.1	19.2
40°-50°	636.0	17.9
50°-60°	494.6	13.9
60°-70°	328.2	9.3
70°-80°	189.9	5.4
80°-90°	69.1	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°	1147.2	32.4
0°-40°	1828.2	51.6
0°-60°	2958.8	83.4
0°-90°	3546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1507	1507	1507	1507	1507	
5°	1508	1500	1500	1503	1506	143
15°	1445	1438	1437	1437	1446	407
25°	1307	1301	1304	1301	1306	601
35°	1101	1095	1092	1085	1088	687
45°	841	835	826	815	816	648
55°	572	564	551	536	535	513
65°	345	334	325	319	320	345
75°	181	176	172	180	185	193
85°	62	60	62	70	71	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.0	1507.0	1507.0	1507.0	1507.0
2.5°	1509.3	1504.8	1507.0	1505.4	1510.4
5°	1508.2	1500.4	1499.8	1502.6	1505.9
7.5°	1497.6	1489.3	1491.0	1491.0	1496.5
10°	1484.9	1476.6	1477.7	1478.2	1484.3
12.5°	1467.7	1459.4	1459.9	1459.4	1465.5
15°	1445.0	1437.8	1437.2	1436.7	1446.1
17.5°	1417.3	1407.3	1410.6	1411.2	1416.1
20°	1385.1	1377.4	1379.6	1379.0	1389.5
22.5°	1346.9	1341.3	1343.0	1341.9	1351.9
25°	1307.0	1301.4	1303.6	1300.9	1306.4
27.5°	1262.1	1258.2	1256.0	1254.3	1258.2
30°	1209.4	1207.2	1207.2	1200.0	1204.4
32.5°	1159.5	1152.3	1152.3	1149.5	1146.8
35°	1100.8	1095.2	1092.5	1084.7	1088.0
37.5°	1042.0	1029.3	1028.2	1022.1	1022.1
40°	974.4	967.2	963.3	956.7	955.6
42.5°	910.1	902.9	896.2	885.2	882.9
45°	841.4	834.7	825.9	815.3	815.9
47.5°	773.2	763.8	755.5	742.7	741.1
50°	702.8	696.2	684.0	672.9	672.3
52.5°	636.9	626.3	615.2	601.9	601.9
55°	572.0	563.7	550.9	536.5	534.9
57.5°	509.9	502.2	487.8	477.2	474.5
60°	452.8	441.8	428.4	419.6	417.4
62.5°	395.7	385.8	375.8	366.9	366.4
65°	344.8	334.2	325.4	319.3	319.8
67.5°	298.7	289.9	279.9	278.2	278.8
70°	255.5	246.1	238.9	242.8	245.5
72.5°	214.5	209.5	204.5	210.1	213.9
75°	180.7	176.3	172.4	180.1	185.1
77.5°	149.7	146.3	145.8	152.4	156.9
80°	120.3	116.4	118.1	125.8	129.7
82.5°	91.5	88.7	89.2	98.7	101.4
85°	61.5	60.4	62.1	70.4	70.9
87.5°	32.7	32.7	33.8	38.8	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)