

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: P293426

Luminaire Tested: **24GR-LD5-38-A-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-A-UNV-L83050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4127.0 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

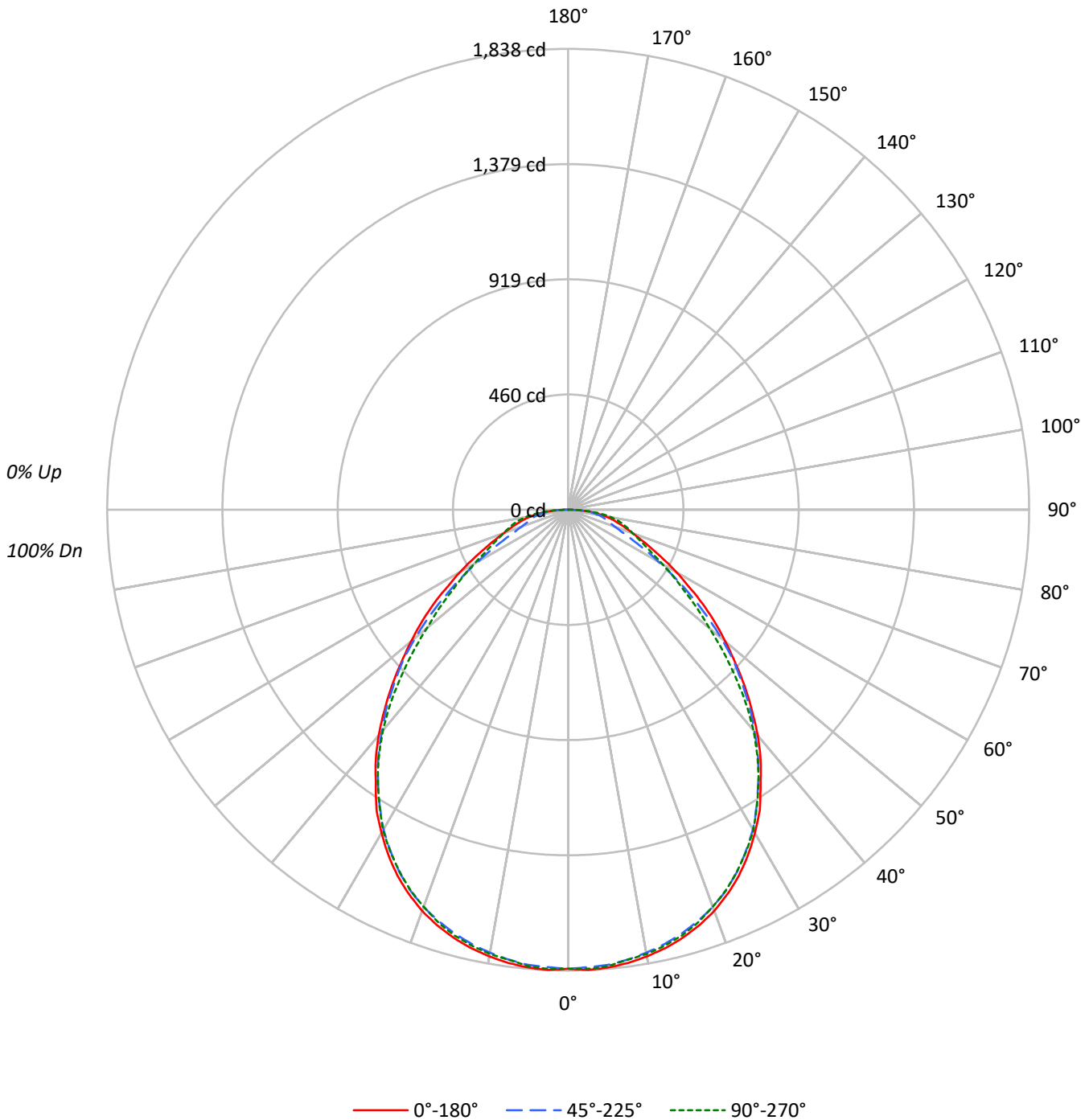
Input Watts (W): 26.598
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2464	2464	2464
5°	2476	2462	2468
10°	2471	2451	2458
15°	2462	2437	2448
20°	2438	2414	2413
25°	2391	2365	2363
30°	2312	2288	2293
35°	2196	2171	2174
40°	2065	2029	2017
45°	1893	1867	1793
50°	1711	1664	1539
55°	1536	1398	1327
60°	1345	1125	1167
65°	1173	885	1074
70°	1074	773	1074
75°	1074	822	1183
80°	1166	969	1349
85°	1280	1093	1447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.4	4.2
10°-20°	494.8	12.0
20°-30°	733.8	17.8
30°-40°	827.8	20.1
40°-50°	749.7	18.2
50°-60°	540.9	13.1
60°-70°	322.9	7.8
70°-80°	199.6	4.8
80°-90°	84.1	2.0
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°	1402.0	34.0
0°-40°	2229.8	54.0
0°-60°	3520.4	85.3
0°-90°	4127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1833	1830	1823	1821	1827	174
15°	1767	1756	1750	1750	1757	498
25°	1610	1602	1593	1588	1592	740
35°	1337	1335	1322	1322	1324	837
45°	995	988	981	957	942	766
55°	655	634	596	567	566	585
65°	368	324	278	316	337	371
75°	207	179	158	197	228	221
85°	83	73	71	92	94	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1831.1	1831.1	1831.1	1831.1	1831.1
2.5°	1837.5	1832.4	1826.0	1829.8	1833.0
5°	1833.0	1830.5	1822.8	1820.9	1827.3
7.5°	1823.5	1817.1	1810.1	1813.3	1810.7
10°	1808.8	1803.0	1794.1	1794.8	1799.2
12.5°	1790.9	1783.9	1774.4	1776.9	1780.7
15°	1767.3	1756.5	1749.5	1750.1	1757.1
17.5°	1737.4	1729.1	1720.2	1722.1	1725.3
20°	1703.0	1698.5	1685.7	1681.9	1685.1
22.5°	1659.6	1651.3	1644.3	1642.4	1643.0
25°	1610.5	1601.6	1593.3	1587.6	1592.0
27.5°	1553.1	1545.5	1534.6	1532.7	1536.5
30°	1488.1	1482.4	1472.8	1470.2	1476.0
32.5°	1421.8	1412.2	1398.8	1398.8	1400.1
35°	1337.0	1335.1	1321.7	1322.3	1323.6
37.5°	1260.5	1251.6	1243.9	1236.2	1240.1
40°	1175.7	1165.5	1155.3	1150.2	1148.3
42.5°	1084.5	1076.9	1072.4	1053.9	1049.4
45°	994.6	988.2	981.2	957.0	942.3
47.5°	902.8	901.5	895.8	853.1	838.4
50°	817.4	815.5	795.1	749.8	735.1
52.5°	736.4	723.6	696.9	652.2	649.7
55°	654.8	634.4	596.1	566.8	565.5
57.5°	568.7	544.5	505.6	489.7	497.9
60°	499.9	462.9	418.2	420.2	433.5
62.5°	428.4	387.0	343.0	362.1	378.1
65°	368.5	324.5	278.0	315.6	337.3
67.5°	316.2	275.4	230.8	281.2	302.2
70°	272.9	239.7	196.4	249.3	272.9
72.5°	238.5	207.8	174.1	223.8	251.2
75°	206.6	179.2	158.1	197.0	227.6
77.5°	179.2	152.4	142.8	174.1	204.0
80°	150.5	126.2	125.0	151.7	174.1
82.5°	117.3	100.7	100.7	126.9	140.3
85°	82.9	72.7	70.8	92.4	93.7
87.5°	42.7	40.8	37.0	48.5	48.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)