

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: P293430

Luminaire Tested: **24GR-LD5-42-A-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293430
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-LD5-42-A-UNV-L83050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4454.0 lumens
Efficiency: N/A
Efficacy: 155.5 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

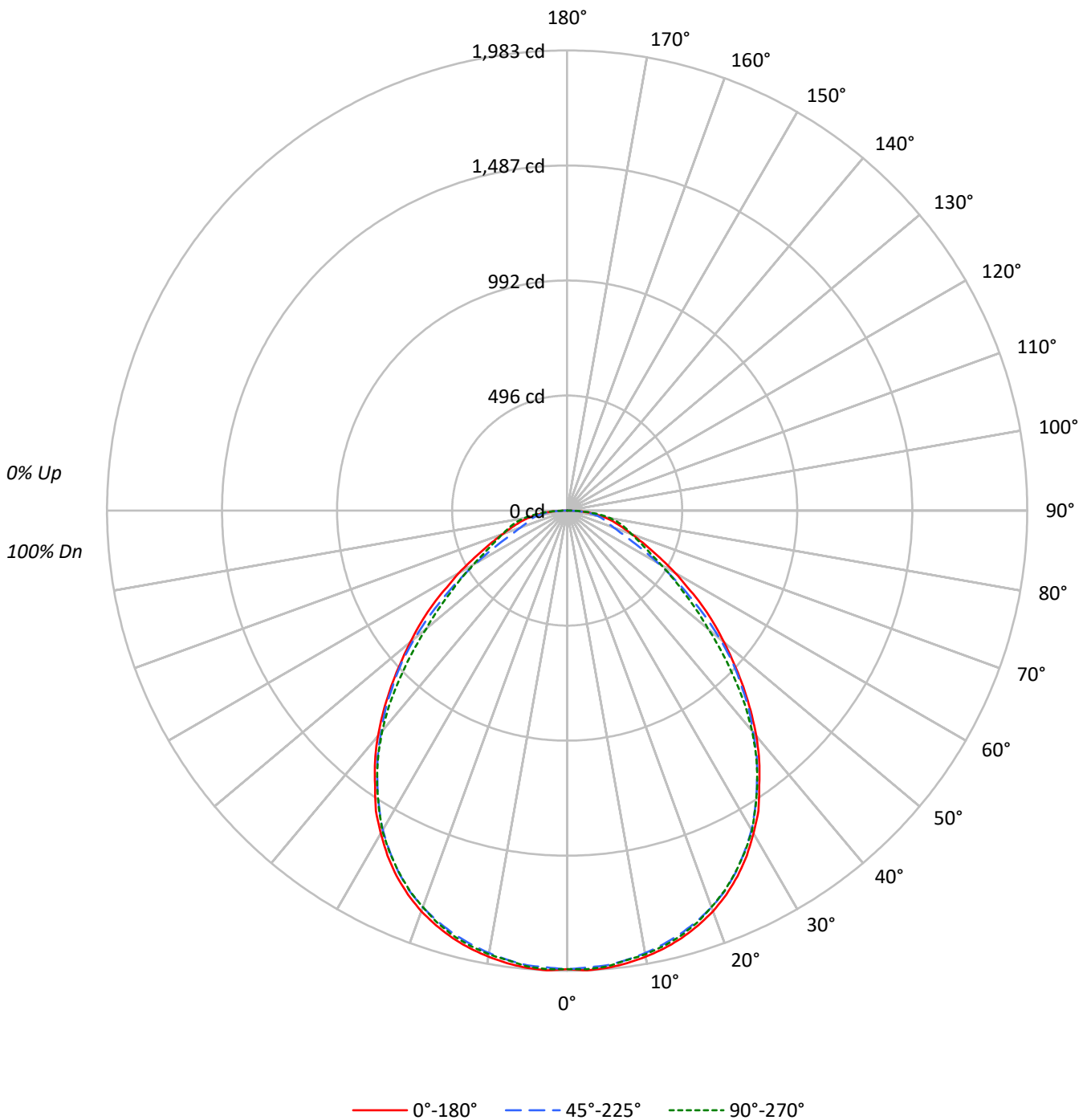
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2659	2659	2659
5°	2672	2657	2664
10°	2667	2645	2653
15°	2657	2630	2642
20°	2632	2605	2604
25°	2580	2553	2551
30°	2495	2470	2475
35°	2370	2343	2346
40°	2229	2190	2177
45°	2042	2015	1935
50°	1846	1796	1661
55°	1658	1509	1432
60°	1452	1215	1259
65°	1266	955	1159
70°	1159	834	1159
75°	1159	887	1277
80°	1258	1045	1455
85°	1382	1179	1561



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	4.2
10°-20°	534.1	12.0
20°-30°	791.9	17.8
30°-40°	893.4	20.1
40°-50°	809.1	18.2
50°-60°	583.7	13.1
60°-70°	348.5	7.8
70°-80°	215.4	4.8
80°-90°	90.7	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°	1513.1	34.0
0°-40°	2406.5	54.0
0°-60°	3799.3	85.3
0°-90°	4454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1976	1976	1976	1976	1976	
5°	1978	1976	1967	1965	1972	188
15°	1907	1896	1888	1889	1896	538
25°	1738	1728	1720	1713	1718	798
35°	1443	1441	1426	1427	1428	903
45°	1073	1066	1059	1033	1017	827
55°	707	685	643	612	610	631
65°	398	350	300	341	364	400
75°	223	193	171	213	246	238
85°	90	78	76	100	101	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1976.2	1976.2	1976.2	1976.2	1976.2
2.5°	1983.1	1977.6	1970.7	1974.8	1978.3
5°	1978.3	1975.5	1967.2	1965.2	1972.1
7.5°	1967.9	1961.1	1953.5	1956.9	1954.2
10°	1952.1	1945.9	1936.3	1937.0	1941.8
12.5°	1932.8	1925.3	1914.9	1917.7	1921.8
15°	1907.4	1895.7	1888.1	1888.8	1896.4
17.5°	1875.0	1866.1	1856.5	1858.5	1862.0
20°	1837.9	1833.1	1819.3	1815.2	1818.6
22.5°	1791.1	1782.1	1774.6	1772.5	1773.2
25°	1738.1	1728.5	1719.5	1713.3	1718.2
27.5°	1676.2	1667.9	1656.2	1654.2	1658.3
30°	1606.0	1599.8	1589.5	1586.7	1592.9
32.5°	1534.4	1524.1	1509.7	1509.7	1511.0
35°	1442.9	1440.9	1426.4	1427.1	1428.5
37.5°	1360.3	1350.7	1342.5	1334.2	1338.3
40°	1268.8	1257.8	1246.8	1241.3	1239.2
42.5°	1170.4	1162.2	1157.4	1137.4	1132.6
45°	1073.4	1066.5	1059.0	1032.8	1017.0
47.5°	974.3	973.0	966.8	920.7	904.8
50°	882.1	880.1	858.0	809.2	793.4
52.5°	794.7	781.0	752.1	703.9	701.2
55°	706.7	684.6	643.4	611.7	610.3
57.5°	613.8	587.6	545.7	528.5	537.4
60°	539.5	499.6	451.4	453.4	467.9
62.5°	462.4	417.7	370.2	390.8	408.0
65°	397.7	350.2	300.0	340.6	364.0
67.5°	341.3	297.3	249.1	303.4	326.2
70°	294.5	258.7	211.9	269.0	294.5
72.5°	257.3	224.3	187.8	241.5	271.1
75°	222.9	193.4	170.6	212.6	245.6
77.5°	193.4	164.5	154.1	187.8	220.2
80°	162.4	136.2	134.9	163.8	187.8
82.5°	126.6	108.7	108.7	136.9	151.4
85°	89.5	78.4	76.4	99.8	101.1
87.5°	46.1	44.0	39.9	52.3	52.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)