

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: P293681

Luminaire Tested: **24GR-LD5-42-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-A125-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4200.0 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

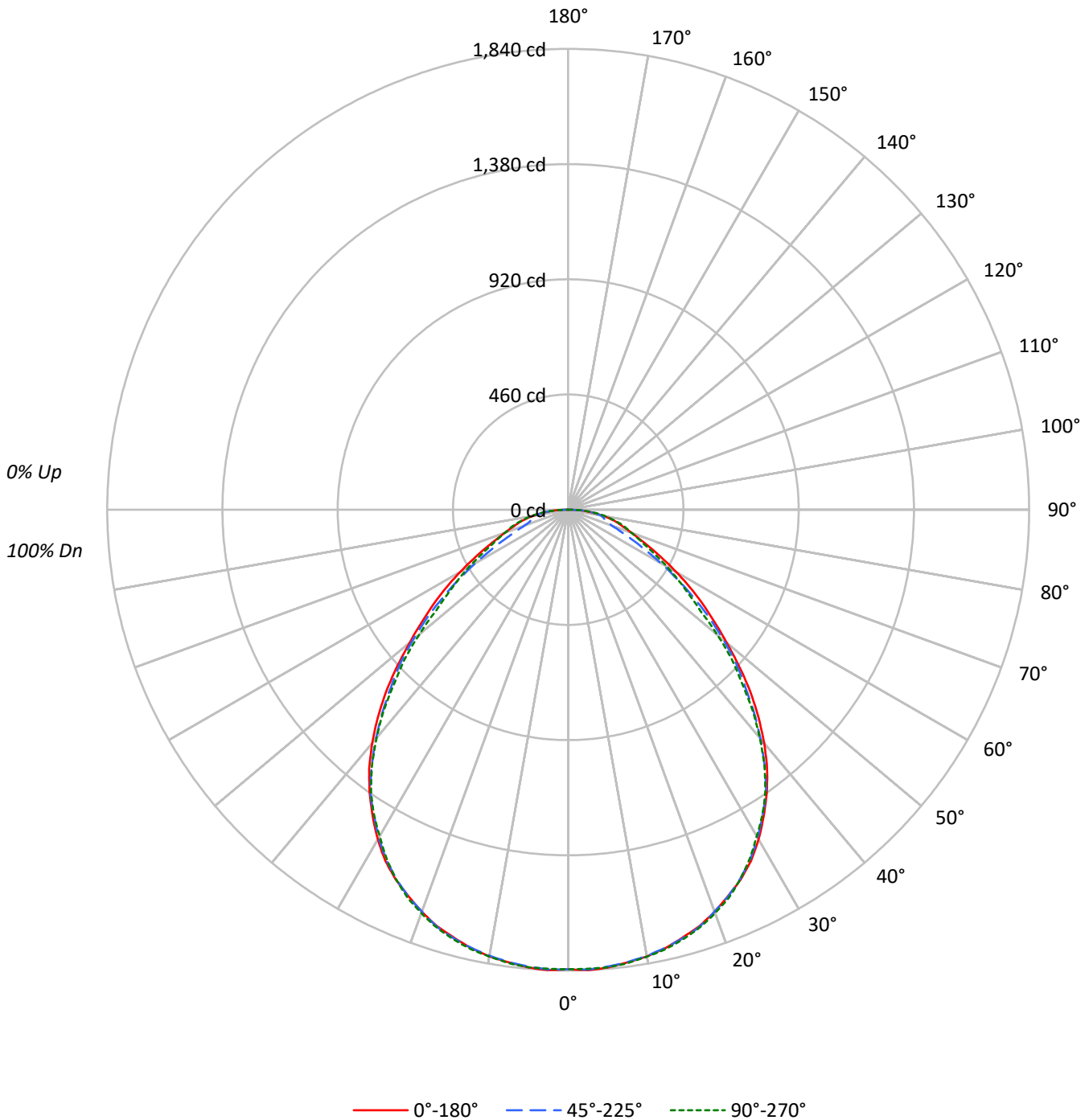
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	2469	2469	2469
5°	2478	2473	2477
10°	2474	2471	2475
15°	2462	2467	2473
20°	2446	2446	2455
25°	2418	2413	2415
30°	2362	2349	2338
35°	2269	2262	2254
40°	2137	2098	2089
45°	1955	1901	1866
50°	1728	1694	1628
55°	1537	1433	1377
60°	1338	1146	1229
65°	1156	889	1087
70°	1054	727	1052
75°	1063	783	1117
80°	1106	1020	1178
85°	1153	1213	1304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	4.1
10°-20°	499.3	11.9
20°-30°	747.4	17.8
30°-40°	854.0	20.3
40°-50°	772.1	18.4
50°-60°	555.5	13.2
60°-70°	322.0	7.7
70°-80°	191.0	4.5
80°-90°	84.6	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°	1420.7	33.8
0°-40°	2274.8	54.2
0°-60°	3602.3	85.8
0°-90°	4200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1835	1835	1835	1835	1835	
5°	1835	1832	1831	1828	1834	174
15°	1768	1771	1771	1769	1776	499
25°	1629	1627	1626	1622	1627	749
35°	1381	1375	1377	1360	1372	861
45°	1027	1010	999	990	981	789
55°	655	643	611	595	587	586
65°	363	322	279	312	341	366
75°	204	171	151	186	215	216
85°	75	81	79	90	84	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1835.3	1835.3	1835.3	1835.3	1835.3
2.5°	1840.5	1833.9	1837.2	1835.3	1834.6
5°	1834.6	1832.0	1830.7	1828.0	1833.9
7.5°	1822.8	1820.8	1821.5	1822.1	1826.1
10°	1811.0	1807.7	1808.4	1809.7	1811.7
12.5°	1792.7	1790.7	1791.4	1792.7	1797.3
15°	1767.8	1771.0	1771.0	1769.1	1775.6
17.5°	1742.9	1742.2	1745.5	1739.6	1748.8
20°	1708.1	1708.8	1708.1	1708.8	1714.7
22.5°	1668.8	1672.1	1670.1	1670.1	1676.7
25°	1628.9	1626.9	1625.6	1622.3	1626.9
27.5°	1581.0	1577.1	1573.8	1567.3	1570.5
30°	1520.1	1520.8	1512.2	1506.3	1505.0
32.5°	1452.0	1452.0	1444.1	1439.5	1443.4
35°	1381.2	1374.6	1377.3	1360.2	1372.0
37.5°	1304.5	1294.0	1288.2	1282.3	1286.2
40°	1216.7	1203.0	1194.5	1182.7	1189.2
42.5°	1124.3	1107.3	1096.8	1088.3	1090.9
45°	1027.4	1009.7	999.2	990.0	980.9
47.5°	925.2	914.0	908.8	897.0	886.5
50°	825.6	821.6	809.2	799.4	777.7
52.5°	734.5	731.2	711.6	695.2	667.7
55°	655.2	642.8	610.7	594.9	587.1
57.5°	574.6	554.3	515.7	513.7	518.9
60°	497.3	472.4	425.9	436.4	456.7
62.5°	427.2	389.9	345.3	370.2	394.4
65°	363.0	322.4	279.1	311.9	341.4
67.5°	309.9	269.3	224.7	268.6	302.7
70°	268.0	226.7	184.8	235.2	267.3
72.5°	233.3	195.9	161.2	209.0	242.4
75°	204.4	171.0	150.7	186.1	214.9
77.5°	175.6	148.7	144.1	165.8	183.5
80°	142.8	130.4	131.7	145.5	152.0
82.5°	106.8	107.5	110.7	121.9	119.2
85°	74.7	80.6	78.6	90.4	84.5
87.5°	41.3	45.2	42.6	51.8	46.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)