

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: P293722

Luminaire Tested: **24GR-LD5-34-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293722
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-LD5-34-A125-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3491.0 lumens
Efficiency: N/A
Efficacy: 150.2 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

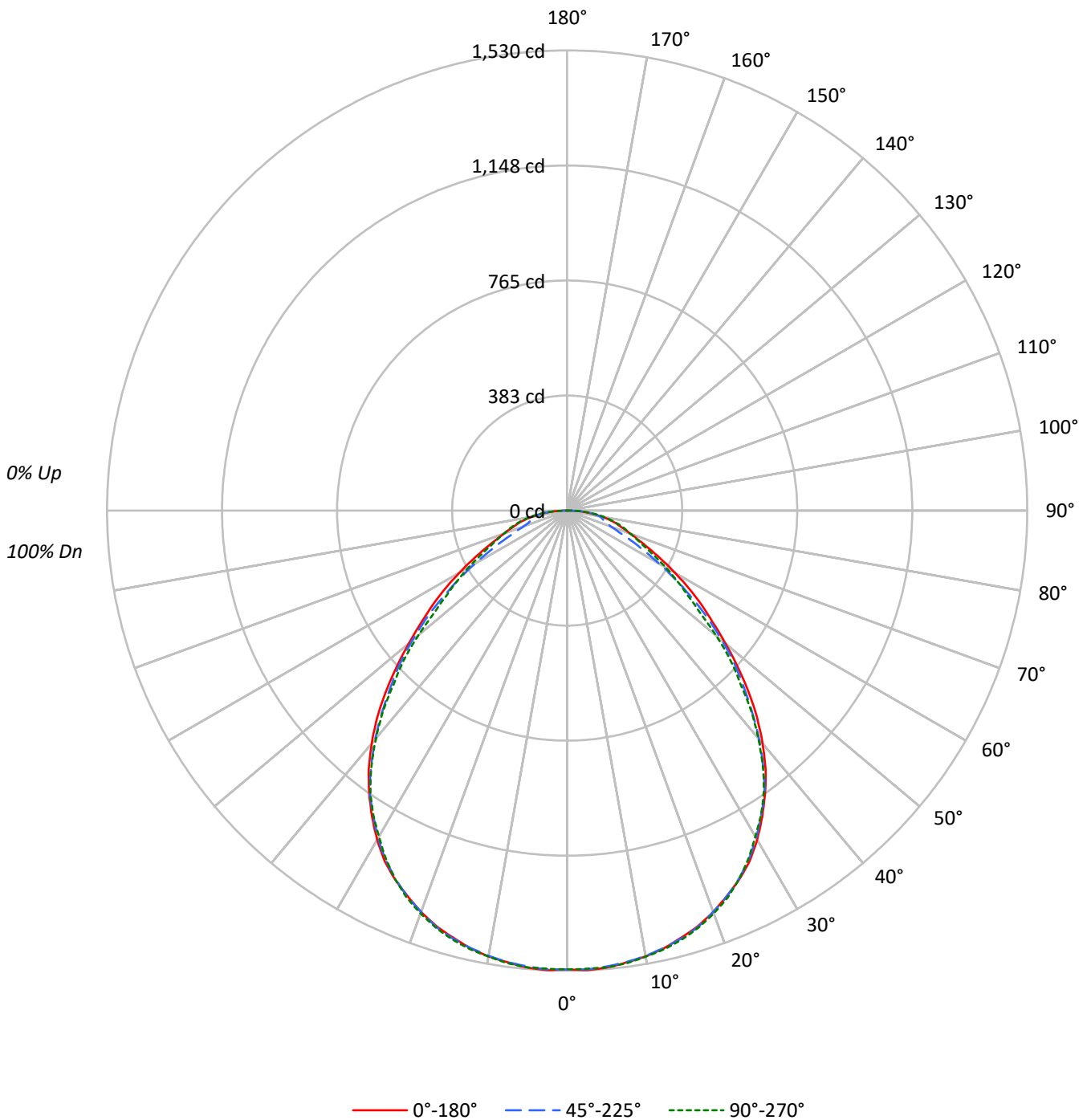
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2052	2052	2052
5°	2060	2055	2059
10°	2057	2054	2057
15°	2047	2051	2056
20°	2033	2033	2041
25°	2010	2006	2008
30°	1963	1953	1944
35°	1886	1880	1873
40°	1776	1744	1736
45°	1625	1580	1551
50°	1436	1408	1353
55°	1278	1191	1145
60°	1112	953	1021
65°	961	739	903
70°	876	604	874
75°	883	651	928
80°	920	848	979
85°	959	1010	1085



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	4.1
10°-20°	415.0	11.9
20°-30°	621.2	17.8
30°-40°	709.8	20.3
40°-50°	641.8	18.4
50°-60°	461.7	13.2
60°-70°	267.7	7.7
70°-80°	158.8	4.5
80°-90°	70.3	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°	1180.9	33.8
0°-40°	1890.8	54.2
0°-60°	2994.2	85.8
0°-90°	3491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1525	1525	1525	1525	1525	
5°	1525	1523	1522	1520	1524	145
15°	1469	1472	1472	1470	1476	415
25°	1354	1352	1351	1348	1352	622
35°	1148	1143	1145	1131	1140	716
45°	854	839	830	823	815	656
55°	545	534	508	494	488	487
65°	302	268	232	259	284	305
75°	170	142	125	155	179	180
85°	62	67	65	75	70	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1525.4	1525.4	1525.4	1525.4	1525.4
2.5°	1529.8	1524.4	1527.1	1525.4	1524.9
5°	1524.9	1522.7	1521.6	1519.5	1524.4
7.5°	1515.1	1513.5	1514.0	1514.6	1517.8
10°	1505.3	1502.6	1503.1	1504.2	1505.8
12.5°	1490.0	1488.4	1489.0	1490.0	1493.9
15°	1469.4	1472.1	1472.1	1470.4	1475.9
17.5°	1448.7	1448.1	1450.8	1445.9	1453.6
20°	1419.8	1420.3	1419.8	1420.3	1425.2
22.5°	1387.1	1389.8	1388.2	1388.2	1393.7
25°	1353.9	1352.3	1351.2	1348.4	1352.3
27.5°	1314.1	1310.9	1308.1	1302.7	1305.4
30°	1263.5	1264.0	1257.0	1252.1	1251.0
32.5°	1206.9	1206.9	1200.3	1196.5	1199.8
35°	1148.0	1142.6	1144.8	1130.6	1140.4
37.5°	1084.3	1075.6	1070.7	1065.8	1069.1
40°	1011.3	999.9	992.8	983.0	988.5
42.5°	934.5	920.4	911.7	904.6	906.8
45°	853.9	839.2	830.5	822.9	815.3
47.5°	769.0	759.7	755.4	745.6	736.9
50°	686.2	682.9	672.6	664.4	646.4
52.5°	610.5	607.8	591.4	577.8	555.0
55°	544.6	534.3	507.6	494.5	488.0
57.5°	477.6	460.7	428.6	427.0	431.3
60°	413.4	392.7	354.0	362.7	379.6
62.5°	355.1	324.0	287.0	307.7	327.9
65°	301.7	267.9	232.0	259.2	283.7
67.5°	257.6	223.8	186.8	223.3	251.6
70°	222.7	188.4	153.6	195.5	222.2
72.5°	193.9	162.8	134.0	173.7	201.5
75°	169.9	142.1	125.3	154.7	178.6
77.5°	146.0	123.6	119.8	137.8	152.5
80°	118.7	108.4	109.5	120.9	126.3
82.5°	88.8	89.3	92.0	101.3	99.1
85°	62.1	67.0	65.4	75.2	70.3
87.5°	34.3	37.6	35.4	43.0	38.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)