

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: P293853

Luminaire Tested: **24GR-LD5-34-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293853
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-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3319.0 lumens
Efficiency: N/A
Efficacy: 137.8 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

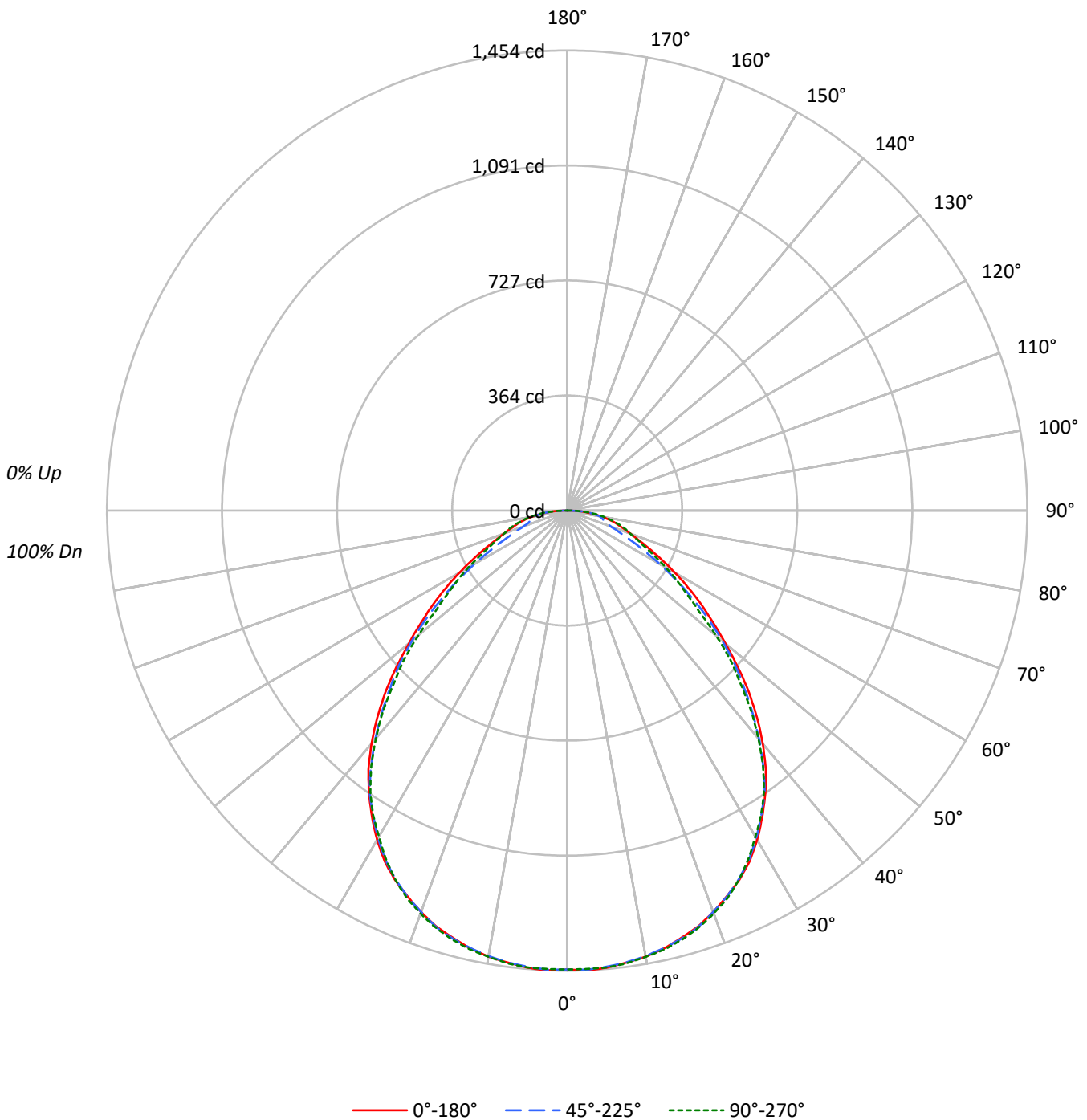
Input Watts (W): 24.087
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1951	1951	1951
5°	1958	1954	1957
10°	1955	1953	1956
15°	1946	1949	1955
20°	1933	1933	1940
25°	1911	1907	1909
30°	1866	1857	1848
35°	1793	1788	1781
40°	1689	1658	1651
45°	1545	1502	1475
50°	1366	1339	1286
55°	1215	1132	1088
60°	1058	906	971
65°	913	702	859
70°	833	574	831
75°	840	619	883
80°	875	807	931
85°	911	959	1031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	4.1
10°-20°	394.6	11.9
20°-30°	590.6	17.8
30°-40°	674.9	20.3
40°-50°	610.1	18.4
50°-60°	439.0	13.2
60°-70°	254.5	7.7
70°-80°	151.0	4.5
80°-90°	66.9	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°	1122.7	33.8
0°-40°	1797.6	54.2
0°-60°	2846.7	85.8
0°-90°	3319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1450	1448	1447	1445	1449	138
15°	1397	1400	1400	1398	1403	394
25°	1287	1286	1285	1282	1286	592
35°	1092	1086	1088	1075	1084	680
45°	812	798	790	782	775	624
55°	518	508	483	470	464	463
65°	287	255	221	246	270	290
75°	162	135	119	147	170	171
85°	59	64	62	72	67	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1450.3	1450.3	1450.3	1450.3	1450.3
2.5°	1454.4	1449.3	1451.8	1450.3	1449.8
5°	1449.8	1447.7	1446.7	1444.6	1449.3
7.5°	1440.4	1438.9	1439.4	1439.9	1443.0
10°	1431.1	1428.5	1429.1	1430.1	1431.6
12.5°	1416.6	1415.1	1415.6	1416.6	1420.3
15°	1397.0	1399.5	1399.5	1398.0	1403.2
17.5°	1377.3	1376.8	1379.4	1374.7	1381.9
20°	1349.8	1350.4	1349.8	1350.4	1355.0
22.5°	1318.8	1321.4	1319.8	1319.8	1325.0
25°	1287.2	1285.6	1284.6	1282.0	1285.6
27.5°	1249.4	1246.3	1243.7	1238.5	1241.1
30°	1201.2	1201.8	1195.0	1190.4	1189.3
32.5°	1147.4	1147.4	1141.2	1137.6	1140.7
35°	1091.5	1086.3	1088.4	1074.9	1084.2
37.5°	1030.9	1022.6	1017.9	1013.3	1016.4
40°	961.5	950.6	943.9	934.6	939.8
42.5°	888.5	875.0	866.8	860.0	862.1
45°	811.9	797.9	789.6	782.4	775.1
47.5°	731.1	722.3	718.2	708.8	700.5
50°	652.4	649.3	639.5	631.7	614.6
52.5°	580.4	577.8	562.3	549.4	527.6
55°	517.8	507.9	482.6	470.1	463.9
57.5°	454.1	438.0	407.5	405.9	410.1
60°	393.0	373.3	336.6	344.8	360.9
62.5°	337.6	308.1	272.9	292.5	311.7
65°	286.8	254.7	220.6	246.5	269.8
67.5°	244.9	212.8	177.6	212.3	239.2
70°	211.8	179.2	146.0	185.9	211.3
72.5°	184.3	154.8	127.4	165.2	191.6
75°	161.5	135.1	119.1	147.0	169.8
77.5°	138.8	117.5	113.9	131.0	145.0
80°	112.9	103.0	104.1	114.9	120.1
82.5°	84.4	84.9	87.5	96.3	94.2
85°	59.0	63.7	62.1	71.5	66.8
87.5°	32.6	35.7	33.7	40.9	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)