

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: P293220

Luminaire Tested: **24GR-LD5-34-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-F125-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3595.0 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

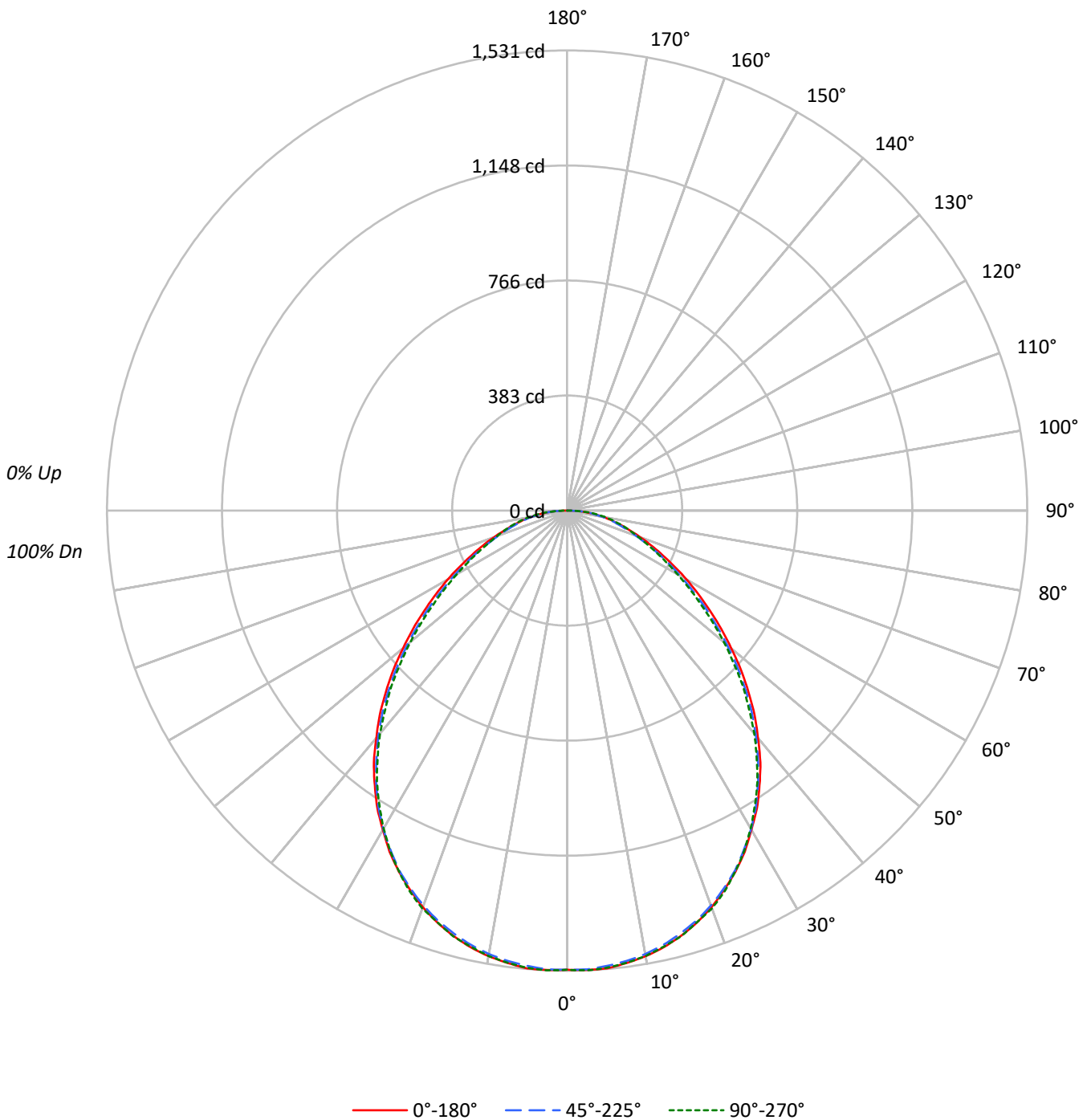
Input Watts (W): 23.529
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293220

CATALOG NUMBER: 24GR-LD5-34-F125-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P293220

CATALOG NUMBER: 24GR-LD5-34-F125-UNV-L82765-W2A1-U-5000K

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2056	2056	2056
5°	2065	2054	2062
10°	2057	2047	2056
15°	2041	2030	2042
20°	2011	2003	2017
25°	1967	1962	1966
30°	1905	1901	1897
35°	1833	1819	1812
40°	1735	1715	1702
45°	1623	1593	1574
50°	1491	1451	1427
55°	1360	1310	1272
60°	1235	1169	1139
65°	1113	1050	1032
70°	1019	953	979
75°	952	909	976
80°	945	927	1019
85°	963	971	1110



TEST NUMBER: P293220

CATALOG NUMBER: 24GR-LD5-34-F125-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	4.0
10°-20°	411.1	11.4
20°-30°	607.3	16.9
30°-40°	690.5	19.2
40°-50°	644.8	17.9
50°-60°	501.5	13.9
60°-70°	332.7	9.3
70°-80°	192.5	5.4
80°-90°	70.0	1.9
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°	1163.0	32.4
0°-40°	1853.5	51.6
0°-60°	2999.7	83.4
0°-90°	3595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1528	1528	1528	1528	1528	
5°	1529	1521	1521	1523	1527	145
15°	1465	1458	1457	1456	1466	413
25°	1325	1319	1322	1319	1324	609
35°	1116	1110	1108	1100	1103	697
45°	853	846	837	827	827	657
55°	580	572	559	544	542	520
65°	350	339	330	324	324	349
75°	183	179	175	183	188	196
85°	62	61	63	71	72	68
90°	0	0	0	0	0	



TEST NUMBER: P293220

CATALOG NUMBER: 24GR-LD5-34-F125-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1530.1	1525.6	1527.9	1526.2	1531.2
5°	1529.0	1521.1	1520.6	1523.4	1526.8
7.5°	1518.3	1509.9	1511.6	1511.6	1517.2
10°	1505.4	1497.0	1498.1	1498.7	1504.8
12.5°	1488.0	1479.5	1480.1	1479.5	1485.7
15°	1464.9	1457.6	1457.1	1456.5	1466.1
17.5°	1436.8	1426.7	1430.1	1430.7	1435.7
20°	1404.3	1396.4	1398.6	1398.1	1408.7
22.5°	1365.5	1359.9	1361.5	1360.4	1370.5
25°	1325.0	1319.4	1321.6	1318.8	1324.5
27.5°	1279.5	1275.6	1273.3	1271.6	1275.6
30°	1226.1	1223.9	1223.9	1216.6	1221.1
32.5°	1175.5	1168.2	1168.2	1165.4	1162.6
35°	1116.0	1110.4	1107.6	1099.7	1103.1
37.5°	1056.4	1043.5	1042.4	1036.2	1036.2
40°	987.9	980.6	976.6	969.9	968.8
42.5°	922.7	915.4	908.6	897.4	895.1
45°	853.0	846.3	837.3	826.6	827.2
47.5°	783.9	774.3	765.9	753.0	751.3
50°	712.5	705.8	693.4	682.2	681.6
52.5°	645.7	635.0	623.7	610.3	610.3
55°	579.9	571.5	558.6	543.9	542.3
57.5°	517.0	509.1	494.5	483.8	481.0
60°	459.1	447.9	434.4	425.4	423.1
62.5°	401.2	391.1	381.0	372.0	371.4
65°	349.5	338.8	329.9	323.7	324.2
67.5°	302.9	293.9	283.8	282.1	282.6
70°	259.0	249.5	242.2	246.1	248.9
72.5°	217.5	212.4	207.4	213.0	216.9
75°	183.2	178.7	174.8	182.6	187.7
77.5°	151.7	148.3	147.8	154.5	159.0
80°	121.9	118.0	119.7	127.6	131.5
82.5°	92.7	89.9	90.5	100.0	102.8
85°	62.4	61.2	62.9	71.4	71.9
87.5°	33.2	33.2	34.3	39.3	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)