

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: P293355

Luminaire Tested: **24GR-LD5-38-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293355
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-LD5-38-F125-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3557.0 lumens
Efficiency: N/A
Efficacy: 137.1 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

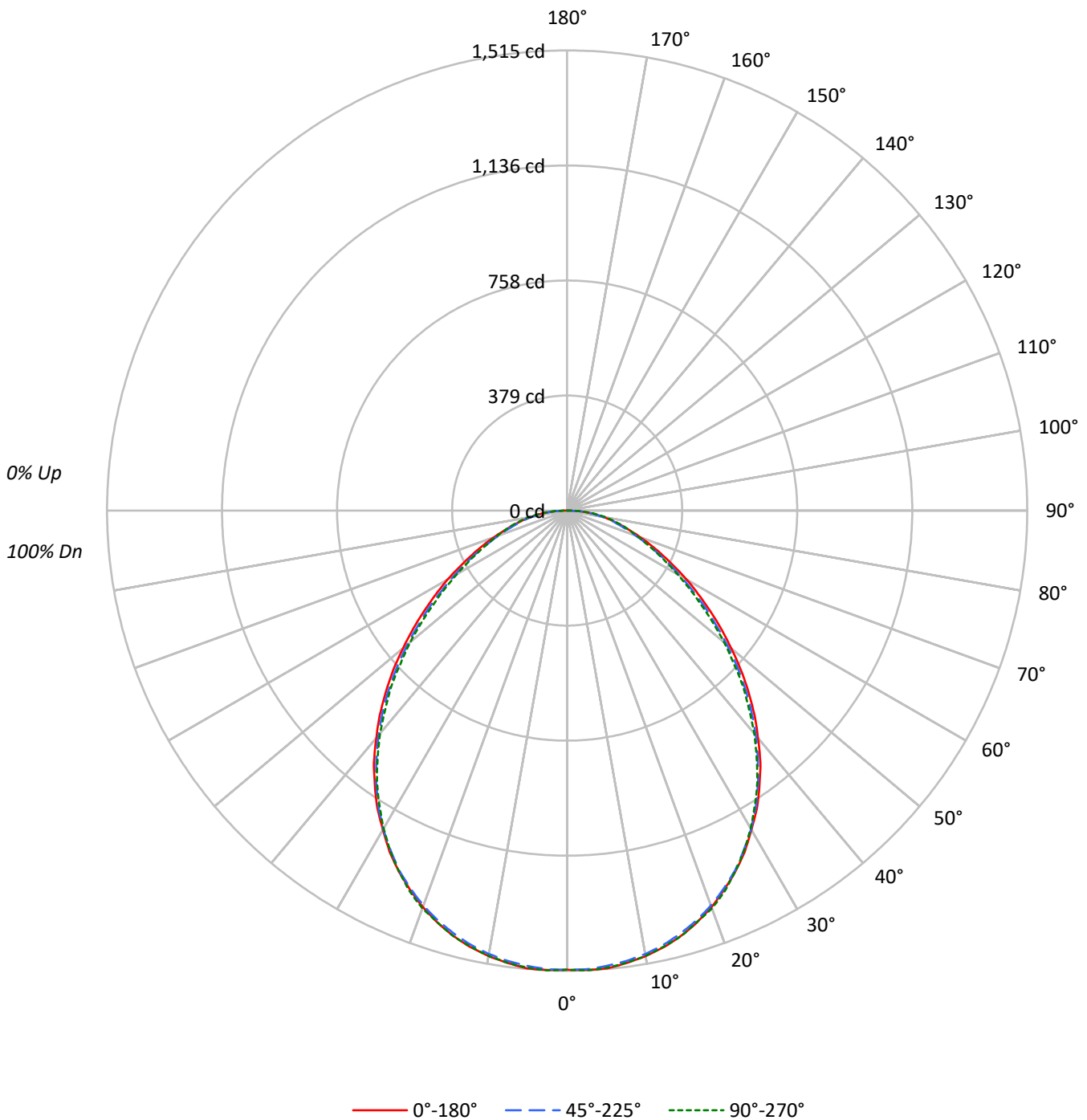
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2034	2034	2034
5°	2043	2032	2040
10°	2035	2025	2034
15°	2019	2008	2021
20°	1989	1981	1996
25°	1946	1941	1946
30°	1885	1881	1877
35°	1814	1800	1793
40°	1717	1697	1684
45°	1606	1576	1557
50°	1476	1436	1412
55°	1346	1296	1259
60°	1222	1157	1127
65°	1101	1039	1021
70°	1008	943	969
75°	943	899	965
80°	934	917	1008
85°	953	962	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	4.0
10°-20°	406.8	11.4
20°-30°	600.9	16.9
30°-40°	683.2	19.2
40°-50°	638.0	17.9
50°-60°	496.1	13.9
60°-70°	329.2	9.3
70°-80°	190.5	5.4
80°-90°	69.3	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°	1150.7	32.4
0°-40°	1833.9	51.6
0°-60°	2968.0	83.4
0°-90°	3557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1513	1505	1504	1507	1511	144
15°	1450	1442	1442	1441	1451	408
25°	1311	1306	1308	1305	1310	603
35°	1104	1099	1096	1088	1091	689
45°	844	837	828	818	818	650
55°	574	565	553	538	536	515
65°	346	335	326	320	321	346
75°	181	177	173	181	186	194
85°	62	61	62	71	71	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1511.7	1511.7	1511.7	1511.7	1511.7
2.5°	1513.9	1509.5	1511.7	1510.1	1515.1
5°	1512.8	1505.1	1504.5	1507.3	1510.6
7.5°	1502.3	1493.9	1495.6	1495.6	1501.2
10°	1489.5	1481.1	1482.3	1482.8	1488.9
12.5°	1472.2	1463.9	1464.5	1463.9	1470.0
15°	1449.5	1442.2	1441.7	1441.1	1450.6
17.5°	1421.7	1411.6	1415.0	1415.5	1420.5
20°	1389.4	1381.6	1383.8	1383.3	1393.9
22.5°	1351.0	1345.5	1347.2	1346.0	1356.0
25°	1311.0	1305.5	1307.7	1304.9	1310.5
27.5°	1266.0	1262.1	1259.9	1258.2	1262.1
30°	1213.2	1210.9	1210.9	1203.7	1208.2
32.5°	1163.1	1155.9	1155.9	1153.1	1150.3
35°	1104.2	1098.6	1095.8	1088.1	1091.4
37.5°	1045.3	1032.5	1031.4	1025.2	1025.2
40°	977.4	970.2	966.3	959.6	958.5
42.5°	912.9	905.7	899.0	887.9	885.7
45°	844.0	837.3	828.4	817.9	818.4
47.5°	775.6	766.1	757.8	745.0	743.4
50°	705.0	698.3	686.1	675.0	674.4
52.5°	638.8	628.3	617.1	603.8	603.8
55°	573.8	565.4	552.6	538.2	536.5
57.5°	511.5	503.7	489.3	478.7	475.9
60°	454.2	443.1	429.8	420.9	418.7
62.5°	397.0	387.0	377.0	368.1	367.5
65°	345.8	335.3	326.4	320.2	320.8
67.5°	299.7	290.8	280.8	279.1	279.7
70°	256.3	246.9	239.6	243.5	246.3
72.5°	215.2	210.2	205.2	210.7	214.6
75°	181.3	176.8	172.9	180.7	185.7
77.5°	150.1	146.8	146.2	152.9	157.3
80°	120.6	116.8	118.4	126.2	130.1
82.5°	91.7	89.0	89.5	99.0	101.7
85°	61.7	60.6	62.3	70.6	71.2
87.5°	32.8	32.8	33.9	38.9	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)