

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: P293171

Luminaire Tested: **24GR-LD5-38-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293171
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-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3636.0 lumens
Efficiency: N/A
Efficacy: 143.7 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

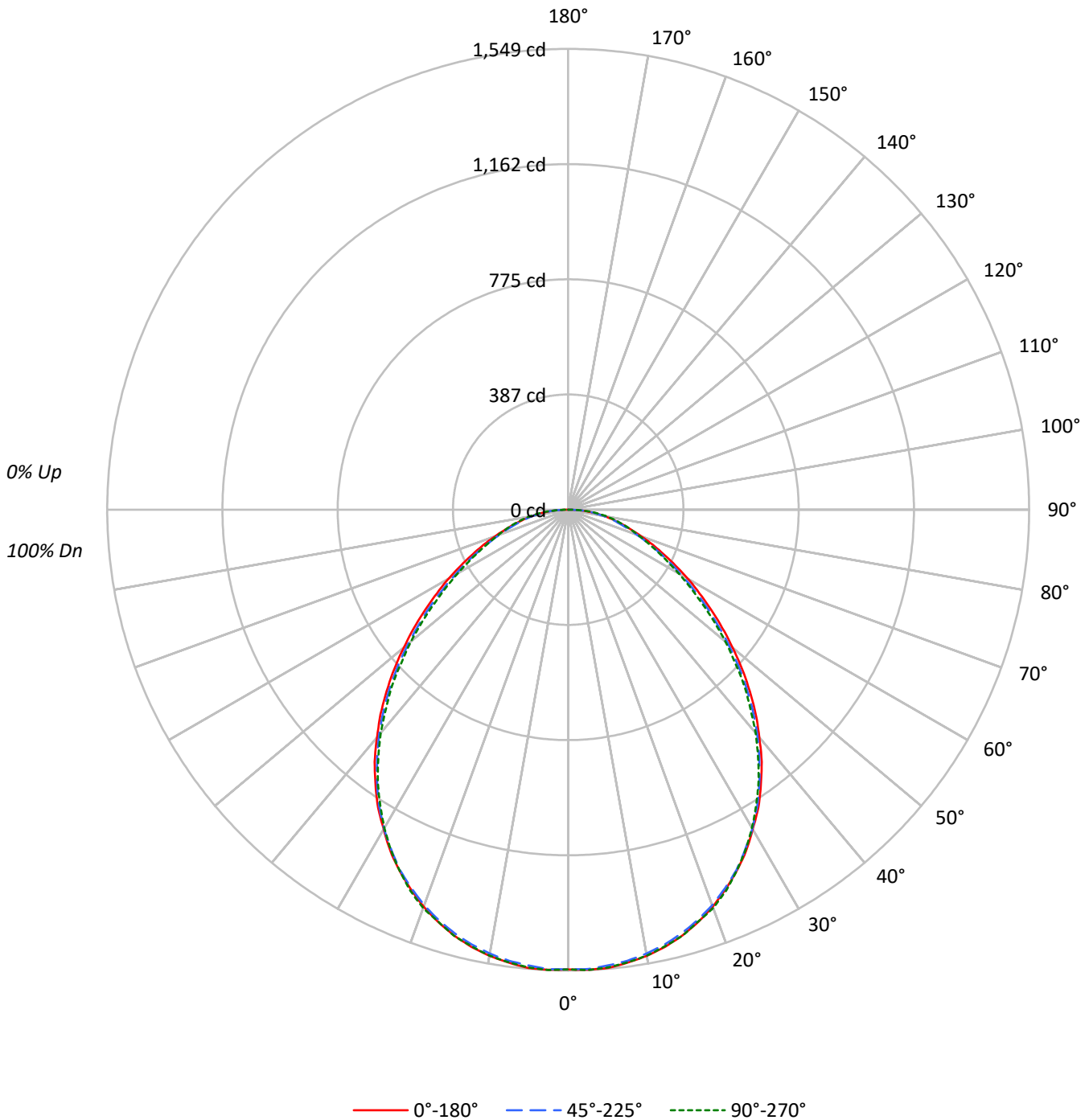
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2079	2079	2079
5°	2089	2077	2086
10°	2080	2070	2079
15°	2064	2053	2065
20°	2034	2025	2040
25°	1989	1984	1989
30°	1927	1923	1919
35°	1854	1840	1832
40°	1755	1735	1721
45°	1642	1611	1592
50°	1508	1468	1443
55°	1376	1325	1286
60°	1249	1182	1152
65°	1125	1062	1044
70°	1031	964	991
75°	963	919	987
80°	955	938	1031
85°	974	983	1122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	4.0
10°-20°	415.8	11.4
20°-30°	614.2	16.9
30°-40°	698.3	19.2
40°-50°	652.1	17.9
50°-60°	507.2	13.9
60°-70°	336.5	9.3
70°-80°	194.7	5.4
80°-90°	70.8	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°	1176.3	32.4
0°-40°	1874.6	51.6
0°-60°	3033.9	83.4
0°-90°	3636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1546	1538	1538	1541	1544	147
15°	1482	1474	1474	1473	1483	417
25°	1340	1334	1337	1334	1340	616
35°	1129	1123	1120	1112	1116	705
45°	863	856	847	836	837	665
55°	586	578	565	550	548	526
65°	354	343	334	327	328	353
75°	185	181	177	185	190	198
85°	63	62	64	72	73	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1545.3	1545.3	1545.3	1545.3	1545.3
2.5°	1547.6	1543.0	1545.3	1543.6	1548.7
5°	1546.4	1538.5	1537.9	1540.8	1544.2
7.5°	1535.6	1527.1	1528.8	1528.8	1534.5
10°	1522.6	1514.0	1515.2	1515.7	1522.0
12.5°	1504.9	1496.4	1497.0	1496.4	1502.7
15°	1481.6	1474.3	1473.7	1473.1	1482.8
17.5°	1453.2	1443.0	1446.4	1447.0	1452.1
20°	1420.3	1412.3	1414.6	1414.0	1424.8
22.5°	1381.1	1375.4	1377.1	1375.9	1386.2
25°	1340.1	1334.4	1336.7	1333.9	1339.6
27.5°	1294.1	1290.1	1287.8	1286.1	1290.1
30°	1240.1	1237.8	1237.8	1230.4	1235.0
32.5°	1189.0	1181.6	1181.6	1178.7	1175.9
35°	1128.7	1123.0	1120.2	1112.2	1115.6
37.5°	1068.5	1055.4	1054.3	1048.0	1048.0
40°	999.1	991.7	987.8	980.9	979.8
42.5°	933.2	925.8	919.0	907.6	905.4
45°	862.7	855.9	846.8	836.0	836.6
47.5°	792.8	783.2	774.6	761.6	759.9
50°	720.6	713.8	701.3	690.0	689.4
52.5°	653.0	642.2	630.9	617.2	617.2
55°	586.5	578.0	564.9	550.1	548.4
57.5°	522.9	514.9	500.1	489.3	486.5
60°	464.3	453.0	439.3	430.2	428.0
62.5°	405.8	395.6	385.3	376.2	375.7
65°	353.5	342.7	333.6	327.4	327.9
67.5°	306.3	297.2	287.0	285.3	285.9
70°	262.0	252.3	245.0	248.9	251.8
72.5°	219.9	214.8	209.7	215.4	219.4
75°	185.3	180.7	176.8	184.7	189.8
77.5°	153.5	150.0	149.5	156.3	160.8
80°	123.3	119.4	121.1	129.0	133.0
82.5°	93.8	90.9	91.5	101.2	104.0
85°	63.1	61.9	63.7	72.2	72.7
87.5°	33.5	33.5	34.7	39.8	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)