

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: P257209

Luminaire Tested: **24GR-LD5-38-F125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P257209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-F125-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3127.7 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

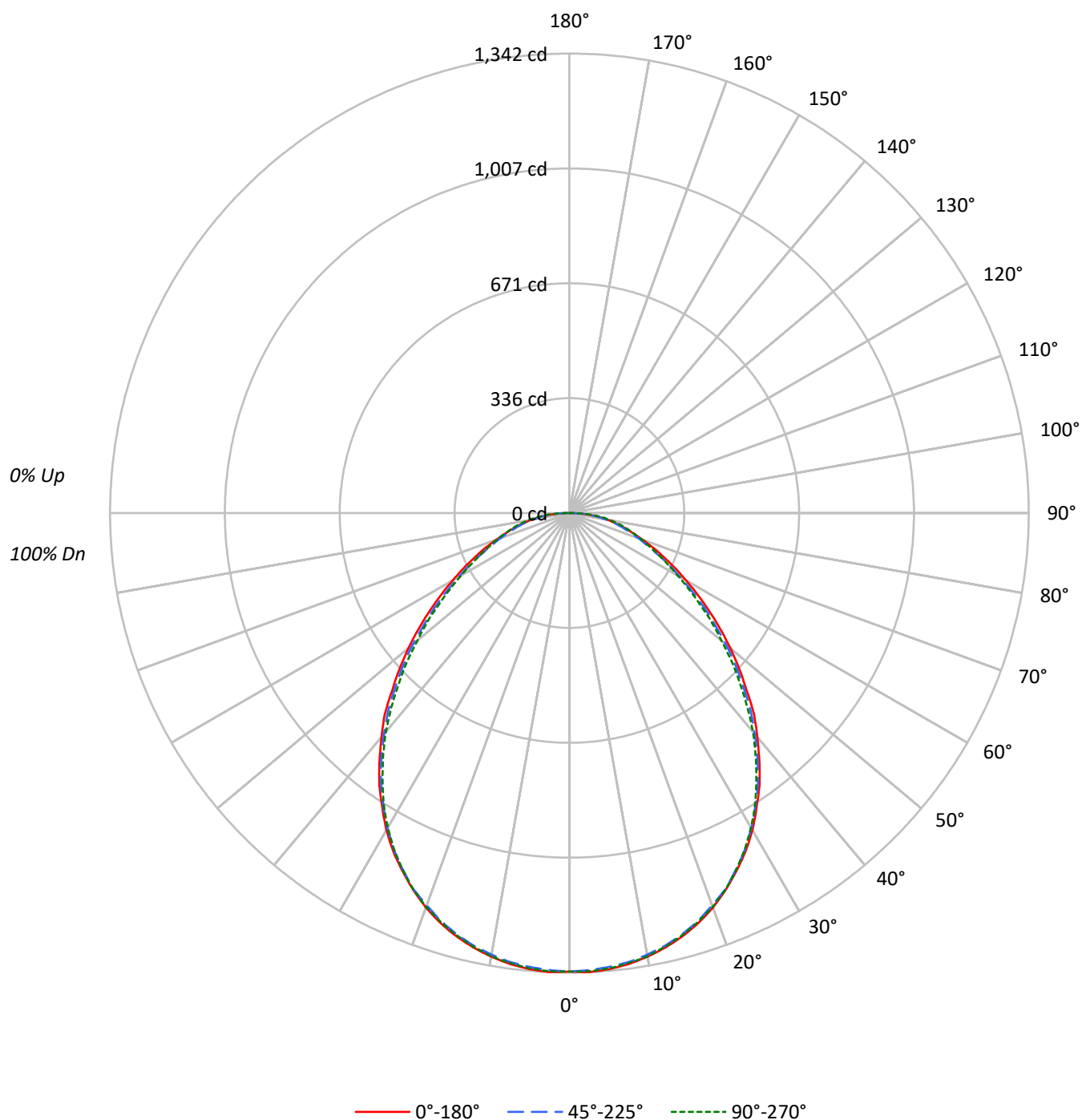
Input Watts (W): 30.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	86	80	98	90	85	80		87	82	78		84	80	76		81	77	74
3	92	82	74	68	89	80	73	67		77	71	66		75	69	65		72	68	64
4	85	73	65	58	82	72	64	58		69	63	57		67	61	57		65	60	56
5	78	66	57	51	76	65	57	51		63	56	50		61	55	50		59	54	49
6	72	60	51	45	71	59	51	45		57	50	44		55	49	44		54	48	44
7	67	54	46	40	66	54	46	40		52	45	40		51	44	39		49	44	39
8	63	50	42	36	61	49	41	36		48	41	36		47	40	36		46	40	35
9	59	46	38	33	58	45	38	33		44	37	32		43	37	32		42	36	32
10	55	43	35	30	54	42	35	30		41	34	30		40	34	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2051	2051	2051
5°	2056	2046	2052
10°	2046	2037	2044
15°	2029	2019	2024
20°	1999	1987	1995
25°	1950	1944	1945
30°	1891	1880	1876
35°	1810	1796	1780
40°	1706	1684	1668
45°	1586	1557	1528
50°	1462	1424	1381
55°	1329	1283	1243
60°	1204	1140	1120
65°	1101	1028	1034
70°	1013	954	1000
75°	985	933	1018
80°	986	961	1085
85°	1084	1026	1195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	4.0
10°-20°	359.1	11.5
20°-30°	529.1	16.9
30°-40°	598.4	19.1
40°-50°	555.0	17.7
50°-60°	431.2	13.8
60°-70°	289.2	9.2
70°-80°	173.3	5.5
80°-90°	65.9	2.1
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°	1014.7	32.4
0°-40°	1613.1	51.6
0°-60°	2599.3	83.1
0°-90°	3127.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3127.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1337	1333	1331	1330	1335	127
15°	1279	1274	1274	1271	1276	360
25°	1154	1152	1150	1148	1151	531
35°	968	964	960	955	952	603
45°	732	729	719	708	706	566
55°	498	492	480	468	465	447
65°	304	294	284	283	285	303
75°	166	161	158	165	172	176
85°	62	58	58	68	68	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.1	1339.1	1339.1	1339.1	1339.1
2.5°	1342.0	1337.7	1335.8	1334.8	1339.1
5°	1337.2	1333.3	1330.9	1330.0	1334.8
7.5°	1328.5	1324.2	1322.7	1320.8	1325.6
10°	1315.5	1311.7	1309.7	1308.2	1314.5
12.5°	1299.1	1295.8	1293.8	1292.8	1296.7
15°	1279.4	1274.0	1273.5	1271.2	1276.4
17.5°	1254.8	1249.9	1248.9	1248.0	1251.4
20°	1226.3	1221.5	1219.1	1218.6	1223.8
22.5°	1192.0	1188.7	1189.7	1186.8	1190.6
25°	1154.0	1152.5	1150.1	1148.2	1151.0
27.5°	1114.4	1109.6	1109.6	1105.8	1108.6
30°	1069.1	1065.7	1062.8	1058.9	1060.9
32.5°	1017.9	1016.6	1012.2	1008.4	1009.3
35°	968.3	964.5	960.5	954.8	951.9
37.5°	911.4	907.6	902.7	894.5	893.6
40°	853.5	850.2	842.5	833.8	834.3
42.5°	798.6	793.3	783.6	772.0	769.7
45°	732.0	729.1	719.0	707.9	705.5
47.5°	672.7	670.8	658.2	646.7	643.8
50°	613.4	608.1	597.5	585.9	579.7
52.5°	555.1	548.3	534.8	527.1	524.1
55°	497.7	491.8	480.3	468.2	465.4
57.5°	444.1	437.9	423.9	415.2	413.8
60°	393.0	387.2	372.3	366.0	365.6
62.5°	347.7	338.0	327.9	323.6	324.1
65°	303.8	294.1	283.6	282.6	285.4
67.5°	265.2	255.1	244.5	248.4	251.2
70°	226.2	218.9	213.1	219.4	223.3
72.5°	192.9	188.5	183.3	192.0	196.7
75°	166.4	160.6	157.7	165.4	172.1
77.5°	137.9	133.1	133.1	141.3	148.5
80°	111.8	108.5	109.0	118.7	123.0
82.5°	87.7	82.9	83.4	95.4	98.4
85°	61.7	57.9	58.4	68.5	68.0
87.5°	32.3	30.8	32.3	39.5	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)