

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: P219025

Luminaire Tested: **24GR-LD5-34-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219025
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-LD5-34-F1-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2788.3 lumens
Efficiency: N/A
Efficacy: 104.2 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

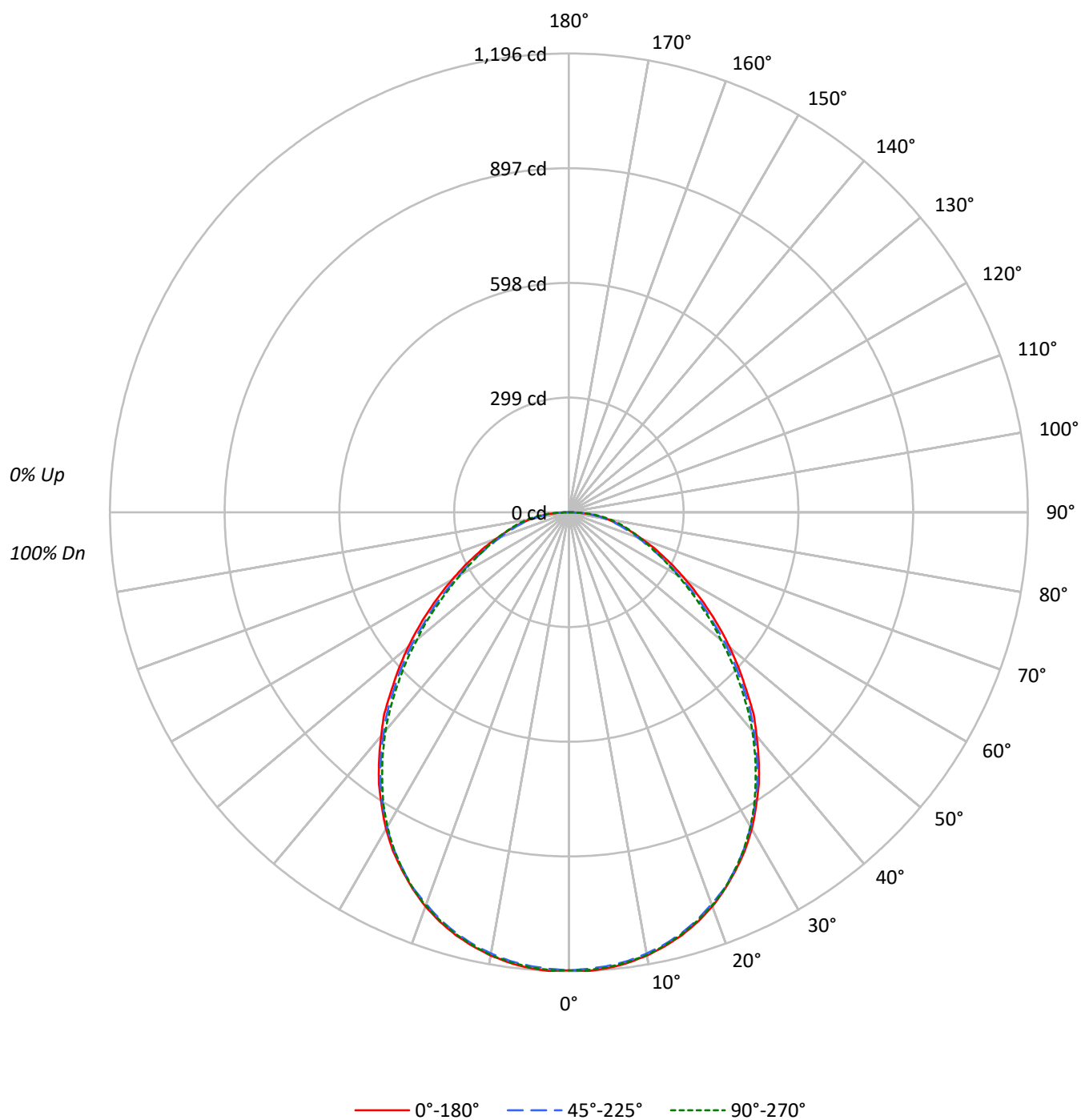
Input Watts (W): 26.756
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1828	1828	1828
5°	1833	1824	1830
10°	1824	1816	1823
15°	1808	1800	1804
20°	1782	1771	1778
25°	1739	1733	1734
30°	1686	1676	1673
35°	1614	1601	1587
40°	1522	1502	1487
45°	1414	1388	1362
50°	1303	1269	1231
55°	1185	1143	1108
60°	1073	1017	998
65°	981	916	922
70°	903	851	891
75°	878	831	908
80°	879	857	967
85°	967	914	1065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	4.0
10°-20°	320.1	11.5
20°-30°	471.7	16.9
30°-40°	533.4	19.1
40°-50°	494.8	17.7
50°-60°	384.4	13.8
60°-70°	257.8	9.2
70°-80°	154.5	5.5
80°-90°	58.8	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°	904.6	32.4
0°-40°	1438.0	51.6
0°-60°	2317.3	83.1
0°-90°	2788.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2788.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1192	1189	1186	1186	1190	113
15°	1140	1136	1135	1133	1138	321
25°	1029	1028	1025	1024	1026	473
35°	863	860	856	851	849	538
45°	653	650	641	631	629	505
55°	444	438	428	418	415	398
65°	271	262	253	252	254	270
75°	148	143	140	147	154	157
85°	55	52	52	61	61	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1193.8	1193.8	1193.8	1193.8	1193.8
2.5°	1196.4	1192.5	1190.8	1190.0	1193.8
5°	1192.1	1188.7	1186.5	1185.6	1190.0
7.5°	1184.4	1180.5	1179.2	1177.5	1181.8
10°	1172.8	1169.3	1167.6	1166.3	1171.9
12.5°	1158.2	1155.1	1153.4	1152.6	1156.0
15°	1140.5	1135.8	1135.4	1133.2	1137.9
17.5°	1118.6	1114.3	1113.4	1112.6	1115.6
20°	1093.2	1089.0	1086.7	1086.3	1091.1
22.5°	1062.7	1059.7	1060.6	1058.0	1061.4
25°	1028.8	1027.5	1025.3	1023.6	1026.1
27.5°	993.5	989.2	989.2	985.7	988.3
30°	953.1	950.1	947.5	944.1	945.8
32.5°	907.5	906.3	902.3	898.9	899.8
35°	863.2	859.8	856.3	851.2	848.6
37.5°	812.5	809.1	804.7	797.4	796.6
40°	761.0	757.9	751.0	743.3	743.7
42.5°	711.9	707.2	698.6	688.3	686.1
45°	652.6	650.0	641.0	631.1	628.9
47.5°	599.7	598.0	586.8	576.5	573.9
50°	546.9	542.1	532.7	522.3	516.8
52.5°	494.8	488.8	476.7	469.9	467.3
55°	443.6	438.5	428.2	417.5	414.8
57.5°	395.9	390.3	377.9	370.1	368.8
60°	350.4	345.2	331.9	326.3	325.9
62.5°	310.0	301.3	292.3	288.5	288.9
65°	270.8	262.2	252.8	251.9	254.5
67.5°	236.4	227.4	218.0	221.4	223.9
70°	201.6	195.2	190.0	195.6	199.0
72.5°	172.0	168.1	163.3	171.1	175.4
75°	148.3	143.2	140.5	147.4	153.5
77.5°	122.9	118.7	118.7	126.0	132.4
80°	99.7	96.8	97.2	105.8	109.6
82.5°	78.2	74.0	74.4	85.1	87.7
85°	55.0	51.6	52.0	61.0	60.6
87.5°	28.8	27.6	28.8	35.3	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)