

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: P219040

Luminaire Tested: **24GR-LD5-34-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219040
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-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2940.1 lumens
Efficiency: N/A
Efficacy: 109.9 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

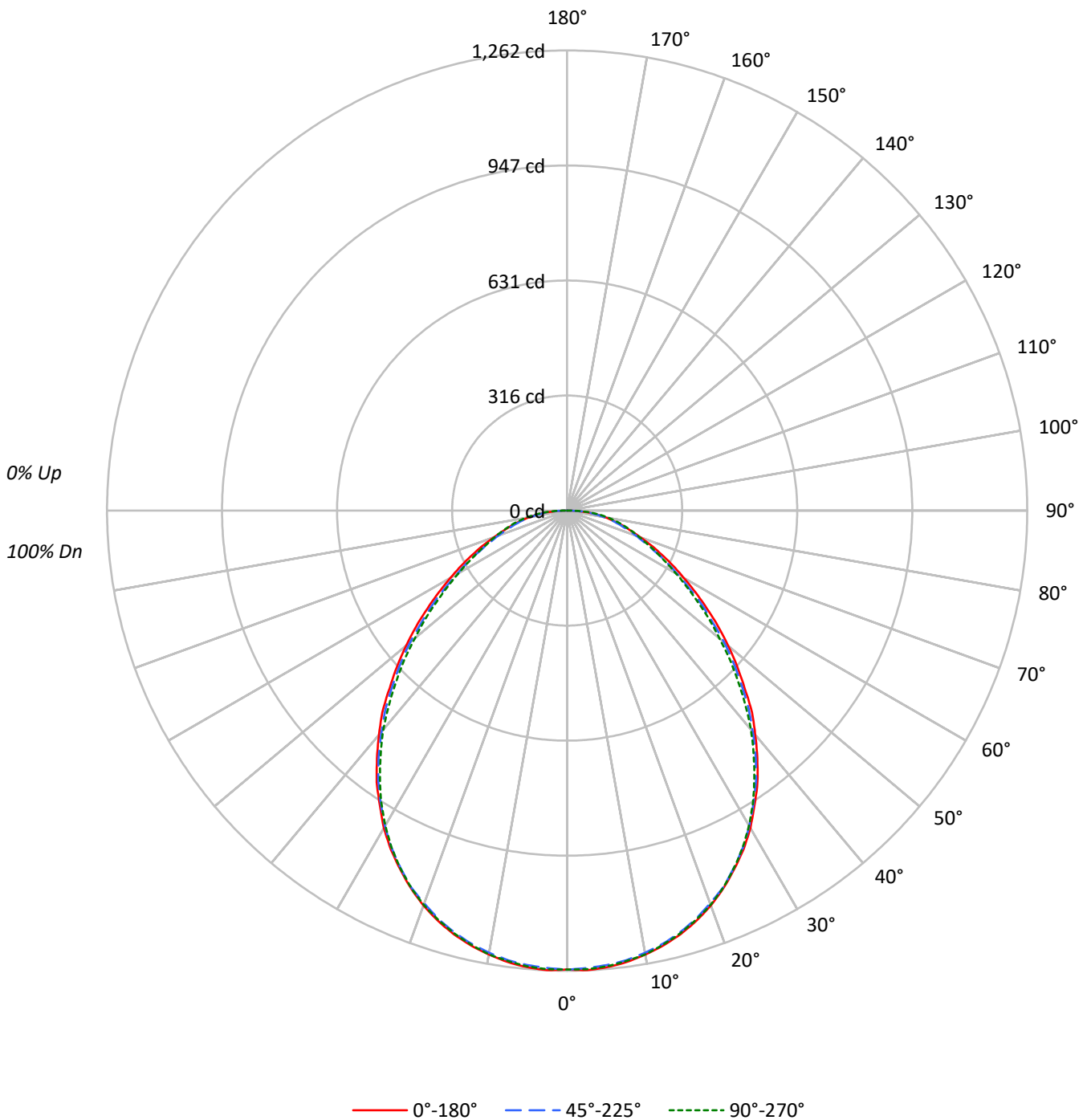
Input Watts (W): 26.756
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	94	92	90	91	89	87	85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	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°	1928	1928	1928
5°	1933	1924	1929
10°	1923	1915	1922
15°	1907	1898	1903
20°	1879	1868	1875
25°	1833	1827	1829
30°	1777	1767	1764
35°	1702	1688	1673
40°	1604	1583	1568
45°	1491	1464	1437
50°	1374	1338	1298
55°	1249	1206	1168
60°	1132	1072	1053
65°	1035	966	972
70°	952	897	940
75°	926	877	957
80°	927	903	1020
85°	1021	963	1123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	4.0
10°-20°	337.6	11.5
20°-30°	497.4	16.9
30°-40°	562.5	19.1
40°-50°	521.8	17.7
50°-60°	405.3	13.8
60°-70°	271.8	9.2
70°-80°	162.9	5.5
80°-90°	62.0	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°	953.9	32.4
0°-40°	1516.4	51.6
0°-60°	2443.5	83.1
0°-90°	2940.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2940.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1257	1253	1251	1250	1255	119
15°	1203	1198	1197	1195	1200	339
25°	1085	1083	1081	1079	1082	499
35°	910	907	903	898	895	567
45°	688	685	676	666	663	532
55°	468	462	452	440	437	420
65°	286	276	267	266	268	285
75°	156	151	148	156	162	165
85°	58	54	55	64	64	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1258.8	1258.8	1258.8	1258.8	1258.8
2.5°	1261.6	1257.5	1255.7	1254.8	1258.8
5°	1257.1	1253.4	1251.1	1250.3	1254.8
7.5°	1248.9	1244.8	1243.5	1241.6	1246.2
10°	1236.7	1233.0	1231.2	1229.9	1235.7
12.5°	1221.2	1218.0	1216.3	1215.3	1219.0
15°	1202.7	1197.6	1197.2	1194.9	1199.9
17.5°	1179.5	1175.0	1174.1	1173.2	1176.3
20°	1152.8	1148.3	1146.0	1145.5	1150.5
22.5°	1120.6	1117.4	1118.3	1115.6	1119.2
25°	1084.8	1083.4	1081.1	1079.3	1082.0
27.5°	1047.6	1043.0	1043.0	1039.5	1042.2
30°	1005.0	1001.8	999.1	995.4	997.3
32.5°	956.9	955.6	951.5	947.8	948.8
35°	910.3	906.6	903.0	897.5	894.8
37.5°	856.7	853.1	848.6	840.9	840.0
40°	802.4	799.2	791.9	783.8	784.2
42.5°	750.7	745.7	736.6	725.7	723.5
45°	688.2	685.4	675.9	665.5	663.2
47.5°	632.4	630.5	618.8	607.9	605.2
50°	576.6	571.6	561.7	550.8	544.8
52.5°	521.7	515.4	502.7	495.5	492.7
55°	467.8	462.4	451.5	440.1	437.4
57.5°	417.5	411.6	398.5	390.3	389.0
60°	369.4	364.0	349.9	344.1	343.6
62.5°	326.8	317.7	308.2	304.1	304.6
65°	285.6	276.5	266.6	265.6	268.3
67.5°	249.3	239.8	229.8	233.5	236.2
70°	212.6	205.8	200.3	206.3	209.9
72.5°	181.3	177.2	172.3	180.5	185.0
75°	156.4	151.0	148.2	155.5	161.8
77.5°	129.6	125.1	125.1	132.9	139.7
80°	105.1	102.0	102.4	111.5	115.6
82.5°	82.5	77.9	78.5	89.8	92.5
85°	58.1	54.4	54.8	64.3	63.9
87.5°	30.3	29.0	30.3	37.1	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)