

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: P475837

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475837
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-FGW080-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2934.0 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

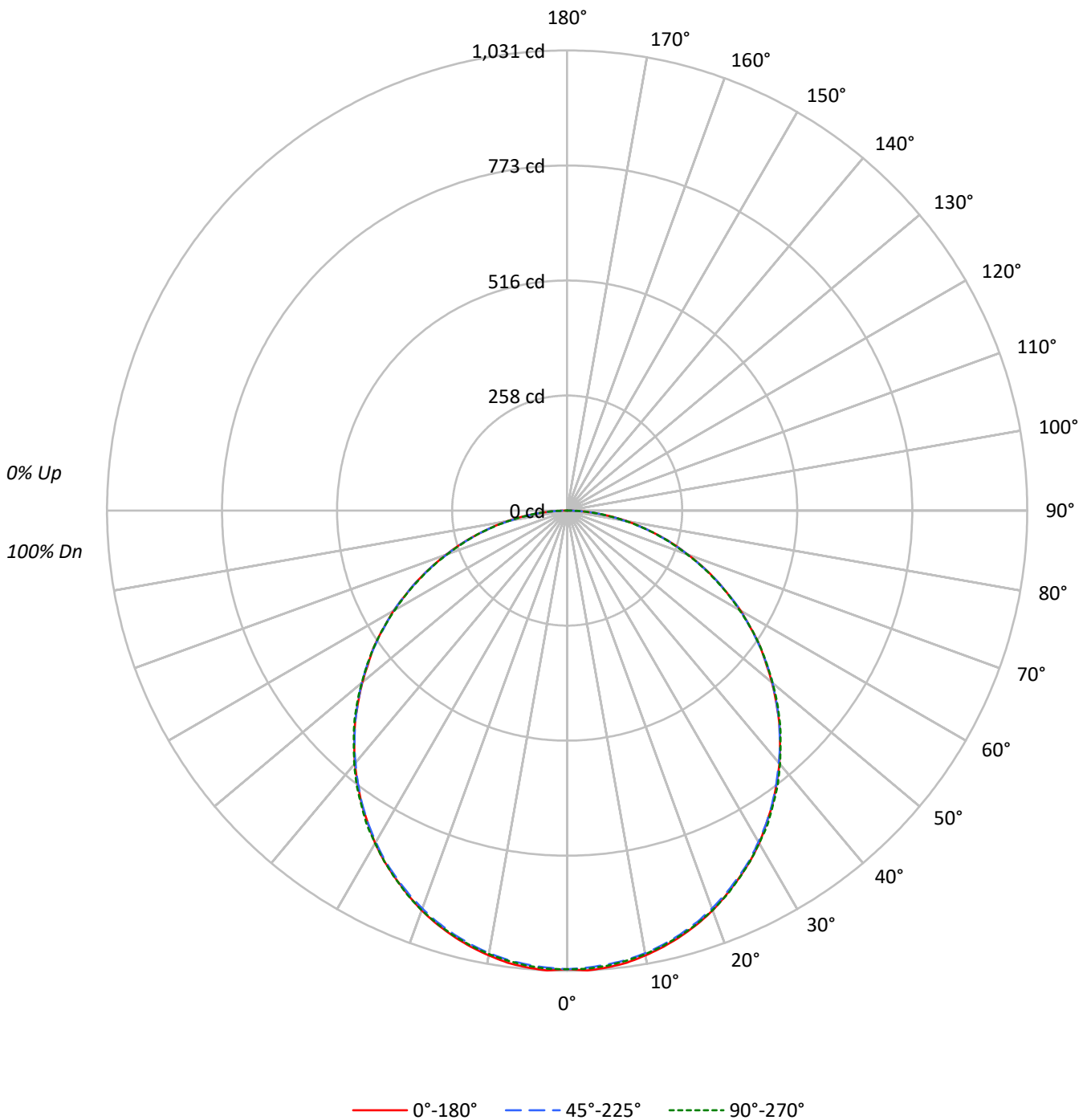
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1383	1383	1383
5°	1388	1379	1383
10°	1383	1376	1379
15°	1375	1369	1372
20°	1365	1359	1364
25°	1350	1346	1351
30°	1337	1332	1337
35°	1318	1316	1321
40°	1299	1296	1303
45°	1278	1278	1284
50°	1254	1257	1257
55°	1236	1231	1235
60°	1208	1207	1199
65°	1174	1172	1165
70°	1133	1130	1124
75°	1089	1086	1088
80°	1039	1019	1024
85°	923	923	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.3
10°-20°	277.6	9.5
20°-30°	418.5	14.3
30°-40°	501.6	17.1
40°-50°	518.2	17.7
50°-60°	469.3	16.0
60°-70°	363.5	12.4
70°-80°	220.5	7.5
80°-90°	67.7	2.3
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°	793.3	27.0
0°-40°	1294.9	44.1
0°-60°	2282.3	77.8
0°-90°	2934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1028	1024	1021	1021	1024	98
15°	987	984	982	983	985	278
25°	909	908	907	909	910	419
35°	802	800	801	802	804	502
45°	672	670	672	673	675	518
55°	527	524	525	526	527	469
65°	369	367	368	367	366	364
75°	210	210	209	207	209	222
85°	60	61	60	59	60	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027.7	1027.7	1027.7	1027.7	1027.7
2.5°	1031.3	1027.7	1025.0	1025.0	1027.3
5°	1027.7	1023.7	1021.3	1021.3	1023.7
7.5°	1021.7	1017.4	1015.4	1015.4	1017.4
10°	1012.0	1008.7	1007.1	1007.1	1009.1
12.5°	1000.8	997.8	995.8	996.1	998.1
15°	987.1	984.2	982.5	983.2	985.2
17.5°	971.2	968.2	966.9	967.9	970.2
20°	953.3	949.6	949.0	950.0	952.6
22.5°	931.7	929.4	929.0	930.7	933.0
25°	909.4	907.5	906.8	908.8	910.1
27.5°	886.5	882.9	884.2	884.5	886.5
30°	860.6	857.3	857.3	858.6	860.6
32.5°	830.8	828.8	830.4	832.1	835.1
35°	802.5	799.5	801.2	802.5	804.2
37.5°	770.7	770.0	770.3	772.3	775.0
40°	739.8	737.8	737.8	740.4	741.8
42.5°	705.9	704.2	705.6	706.9	707.6
45°	671.7	670.4	671.7	672.7	674.7
47.5°	635.2	635.5	635.8	636.5	638.5
50°	599.0	600.3	600.7	602.0	600.7
52.5°	561.5	561.8	563.1	563.5	563.8
55°	526.9	524.0	524.9	525.6	526.6
57.5°	486.4	485.4	485.4	486.4	487.1
60°	448.9	446.9	448.6	446.6	445.6
62.5°	407.1	407.7	408.4	408.1	406.4
65°	368.6	366.6	368.2	367.2	365.9
67.5°	328.1	326.4	327.1	326.7	326.4
70°	287.9	287.9	287.2	285.6	285.6
72.5°	250.0	248.0	248.7	246.7	246.7
75°	209.5	209.5	208.9	206.9	209.2
77.5°	171.7	170.7	170.0	168.7	168.7
80°	134.1	131.8	131.5	131.5	132.2
82.5°	97.3	95.6	95.0	95.0	95.3
85°	59.8	60.8	59.8	58.8	60.4
87.5°	28.2	26.9	26.9	27.9	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)