

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: P225803

Luminaire Tested: **22GR-LD5-20-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35595)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-F1-UNV-L935-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1757.8 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

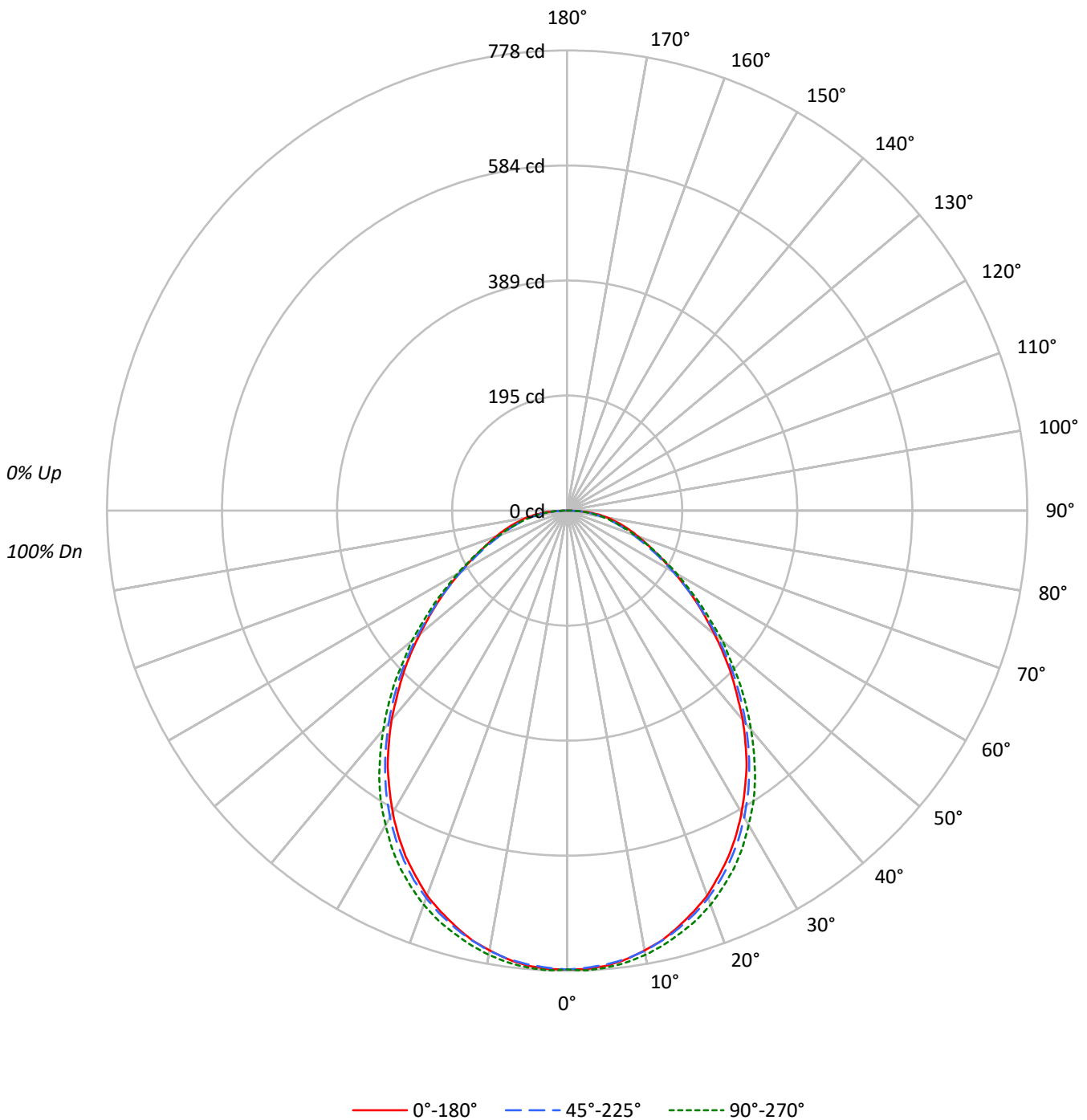
Input Watts (W): 16.13
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2485	2485	2485
5°	2482	2475	2492
10°	2456	2458	2481
15°	2414	2423	2453
20°	2361	2376	2417
25°	2281	2306	2358
30°	2181	2214	2269
35°	2068	2098	2165
40°	1930	1962	2023
45°	1780	1815	1870
50°	1619	1649	1707
55°	1472	1484	1529
60°	1335	1325	1374
65°	1228	1195	1243
70°	1193	1107	1148
75°	1208	1083	1098
80°	1287	1108	1123
85°	1422	1183	1172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	4.2
10°-20°	206.3	11.7
20°-30°	300.8	17.1
30°-40°	336.2	19.1
40°-50°	309.2	17.6
50°-60°	239.5	13.6
60°-70°	160.6	9.1
70°-80°	96.1	5.5
80°-90°	35.9	2.0
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°	580.3	33.0
0°-40°	916.5	52.1
0°-60°	1465.2	83.4
0°-90°	1757.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1757.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	772	770	770	773	775	73
15°	728	729	731	737	740	205
25°	646	647	653	662	667	296
35°	529	530	537	547	554	330
45°	393	394	401	407	413	303
55°	264	264	266	270	274	237
65°	162	161	158	159	164	163
75°	98	94	88	87	89	104
85°	39	39	32	30	32	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	776.0	776.0	776.0	776.0	776.0
2.5°	775.7	774.1	773.7	776.0	778.1
5°	772.1	770.4	770.0	773.2	775.3
7.5°	765.2	764.0	764.4	767.6	770.4
10°	755.1	754.7	755.9	760.0	762.8
12.5°	743.8	743.0	744.3	749.4	752.2
15°	728.1	728.9	730.9	736.6	739.8
17.5°	710.8	711.5	715.2	720.9	726.1
20°	692.7	692.2	697.1	704.7	709.2
22.5°	668.9	670.8	676.5	684.6	689.0
25°	645.5	647.1	652.7	662.0	667.2
27.5°	618.5	621.3	627.3	636.1	642.3
30°	589.8	592.3	598.7	608.8	613.6
32.5°	558.8	562.0	568.8	579.7	585.8
35°	529.0	529.7	536.6	547.1	553.9
37.5°	495.0	497.1	503.5	515.3	518.8
40°	461.6	463.2	469.3	479.0	483.8
42.5°	425.8	428.6	435.0	442.3	448.0
45°	393.0	394.3	400.8	406.8	412.8
47.5°	358.8	360.1	365.7	372.1	374.5
50°	325.0	326.6	331.0	337.4	342.7
52.5°	293.5	294.3	296.3	303.5	306.0
55°	263.7	264.1	265.7	269.7	273.8
57.5°	235.4	235.0	234.6	238.3	241.9
60°	208.4	207.7	206.8	209.6	214.5
62.5°	184.6	183.9	180.6	183.9	187.8
65°	162.1	160.8	157.7	159.2	164.0
67.5°	144.3	142.0	136.7	138.7	142.3
70°	127.4	124.2	118.2	119.8	122.6
72.5°	112.5	107.6	102.4	102.8	105.7
75°	97.6	93.5	87.5	86.7	88.7
77.5°	83.5	80.2	73.8	72.6	74.2
80°	69.8	66.6	60.1	57.6	60.9
82.5°	54.8	53.6	46.3	44.7	46.0
85°	38.7	39.1	32.2	30.3	31.9
87.5°	19.7	20.6	16.5	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)