

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: P234096

Luminaire Tested: **22GR-LD5-85-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-85-F1-UNV-L950-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8562.6 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

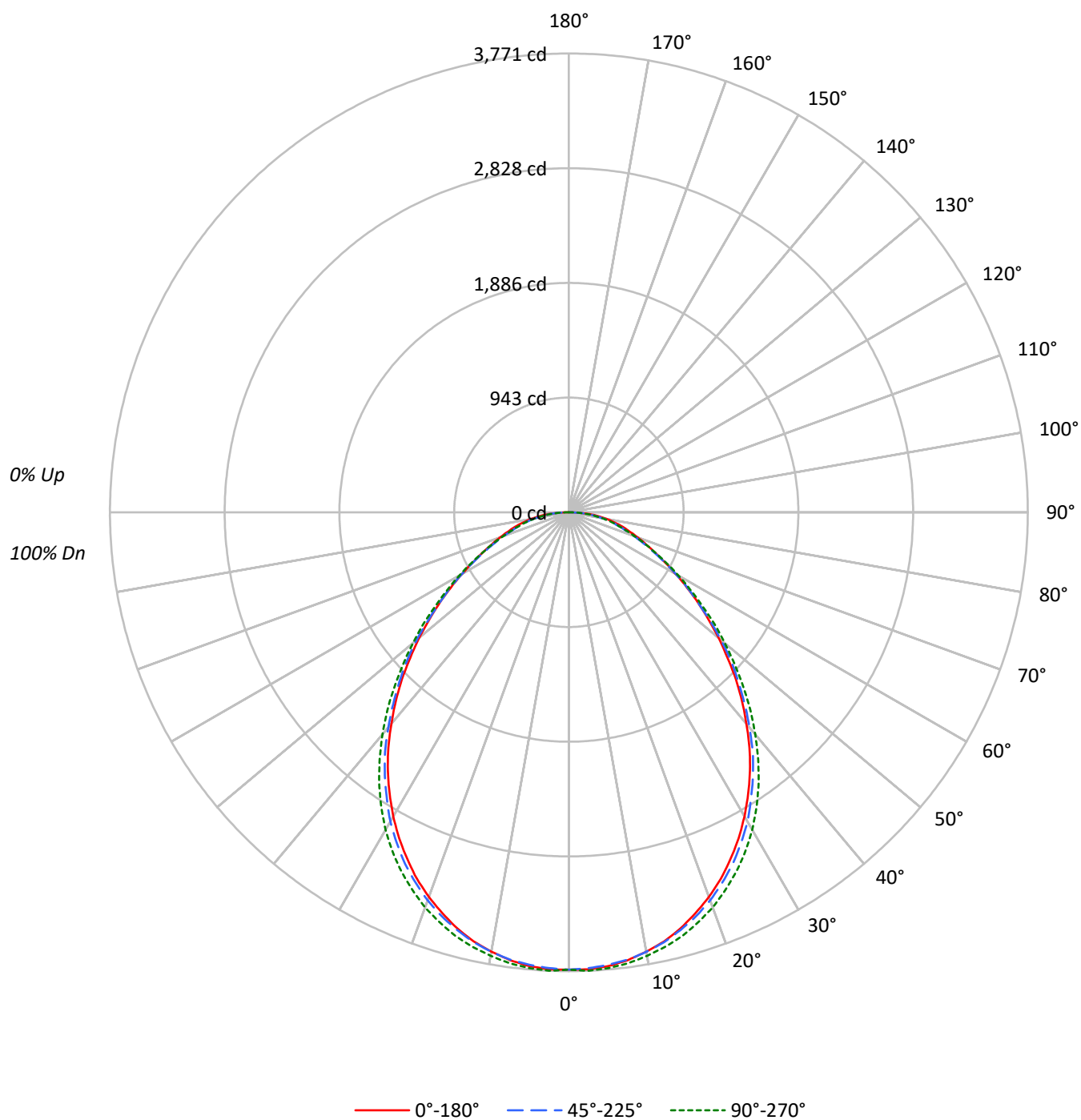
Input Watts (W): 81.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	97	107	103	99	96		99	96	93		95	92	90		91	89	87
2	100	93	86	81	98	91	85	80		87	82	78		84	80	76		81	78	75
3	92	82	75	69	90	81	74	68		78	72	67		75	70	66		73	68	65
4	85	74	65	59	83	72	65	59		70	63	58		68	62	57		65	60	56
5	78	66	58	52	76	65	57	51		63	56	51		61	55	50		59	54	50
6	73	60	52	45	71	59	51	45		57	50	45		56	49	45		54	49	44
7	68	55	46	41	66	54	46	40		53	45	40		51	45	40		50	44	40
8	63	50	42	36	62	50	42	36		48	41	36		47	41	36		46	40	36
9	59	46	38	33	58	46	38	33		45	38	33		44	37	33		43	37	33
10	56	43	35	30	54	42	35	30		41	35	30		40	34	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12038	12038	12038
5°	12033	12001	12084
10°	11920	11927	12037
15°	11738	11778	11949
20°	11463	11565	11775
25°	11106	11261	11506
30°	10668	10852	11138
35°	10144	10307	10626
40°	9485	9643	9959
45°	8782	8917	9178
50°	7998	8127	8335
55°	7222	7244	7455
60°	6477	6503	6655
65°	5902	5781	5917
70°	5619	5302	5395
75°	5655	5113	5137
80°	5863	5166	5131
85°	6423	5475	5181



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.1	4.1
10°-20°	1003.2	11.7
20°-30°	1468.3	17.1
30°-40°	1650.9	19.3
40°-50°	1522.5	17.8
50°-60°	1173.4	13.7
60°-70°	774.3	9.0
70°-80°	450.7	5.3
80°-90°	164.2	1.9
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°	2826.7	33.0
0°-40°	4477.6	52.3
0°-60°	7173.4	83.8
0°-90°	8562.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8562.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3759	3759	3759	3759	3759	
5°	3743	3735	3733	3751	3759	355
15°	3540	3540	3552	3584	3604	996
25°	3143	3159	3187	3230	3256	1446
35°	2595	2607	2636	2690	2718	1618
45°	1939	1941	1969	2009	2026	1493
55°	1293	1291	1297	1319	1335	1160
65°	779	775	763	769	781	781
75°	457	437	413	405	415	481
85°	175	173	149	137	141	185
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3759.0	3759.0	3759.0	3759.0	3759.0
2.5°	3759.0	3751.0	3749.0	3762.9	3770.9
5°	3743.1	3735.2	3733.2	3751.0	3759.0
7.5°	3711.3	3705.3	3707.3	3727.2	3737.1
10°	3665.7	3663.7	3667.6	3689.5	3701.4
12.5°	3612.0	3610.0	3618.0	3641.8	3657.7
15°	3540.4	3540.4	3552.4	3584.1	3604.1
17.5°	3455.0	3461.0	3478.8	3510.7	3532.5
20°	3363.6	3369.5	3393.4	3429.2	3455.0
22.5°	3262.3	3270.3	3294.1	3337.8	3359.6
25°	3143.0	3159.0	3186.8	3230.5	3256.3
27.5°	3019.9	3037.8	3063.6	3117.3	3141.1
30°	2884.8	2896.7	2934.5	2984.2	3012.0
32.5°	2741.7	2753.7	2785.5	2845.1	2869.0
35°	2594.8	2606.7	2636.5	2690.1	2717.9
37.5°	2435.8	2445.7	2481.5	2523.2	2553.0
40°	2268.9	2282.8	2306.7	2356.4	2382.2
42.5°	2106.0	2111.9	2137.8	2187.5	2207.3
45°	1939.1	1941.1	1968.9	2008.6	2026.5
47.5°	1766.2	1770.2	1804.0	1827.8	1845.8
50°	1605.3	1607.3	1631.2	1653.0	1672.9
52.5°	1444.4	1444.4	1456.3	1480.1	1506.0
55°	1293.4	1291.4	1297.4	1319.2	1335.2
57.5°	1150.3	1148.3	1156.3	1170.3	1182.2
60°	1011.3	1007.3	1015.3	1023.2	1039.1
62.5°	888.1	892.1	882.2	894.1	906.0
65°	778.8	774.9	762.9	768.9	780.8
67.5°	685.4	679.5	659.6	663.6	677.5
70°	600.1	588.1	566.2	566.2	576.2
72.5°	522.5	510.6	482.8	484.8	488.8
75°	457.0	437.1	413.2	405.3	415.2
77.5°	385.5	369.6	347.7	341.7	345.7
80°	317.9	305.9	280.1	272.2	278.2
82.5°	252.3	242.4	212.6	206.7	208.6
85°	174.8	172.8	149.0	137.0	141.0
87.5°	93.4	95.4	77.4	69.5	73.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)