

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: P225807

Luminaire Tested: **22GR-LD5-36-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225807
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-LD5-36-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: 3095.7 lumens
Efficiency: N/A
Efficacy: 89.6 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

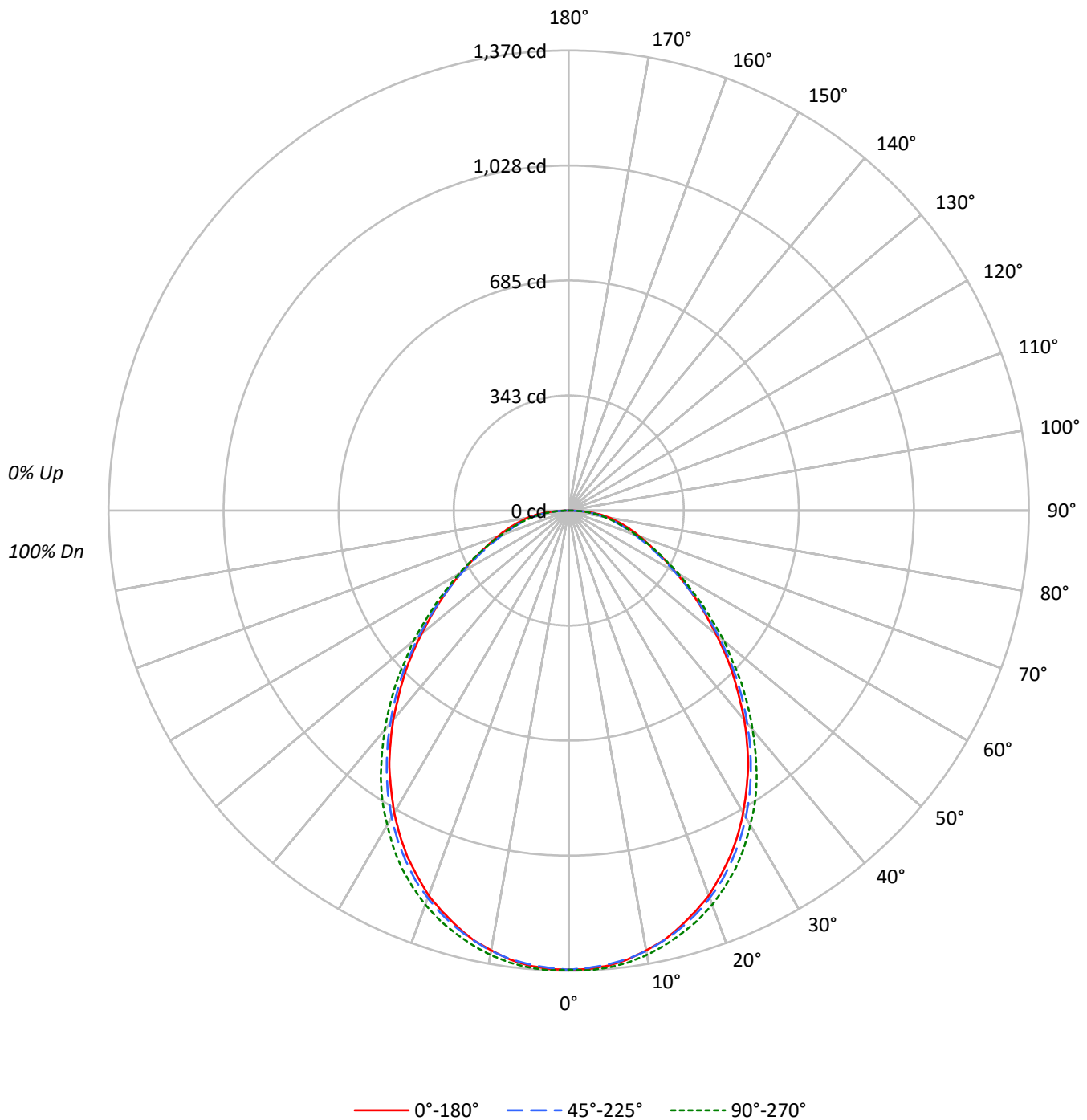
Input Watts (W): 34.56
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
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°	4377	4377	4377
5°	4371	4359	4389
10°	4324	4329	4368
15°	4251	4268	4320
20°	4157	4184	4256
25°	4017	4062	4152
30°	3841	3899	3996
35°	3642	3694	3814
40°	3398	3455	3562
45°	3135	3197	3293
50°	2851	2904	3007
55°	2593	2612	2692
60°	2351	2333	2419
65°	2163	2104	2190
70°	2101	1948	2021
75°	2126	1907	1933
80°	2265	1951	1977
85°	2506	2087	2061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	4.2
10°-20°	363.3	11.7
20°-30°	529.7	17.1
30°-40°	592.1	19.1
40°-50°	544.5	17.6
50°-60°	421.9	13.6
60°-70°	282.8	9.1
70°-80°	169.2	5.5
80°-90°	63.2	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°	1022.0	33.0
0°-40°	1614.0	52.1
0°-60°	2580.4	83.4
0°-90°	3095.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3095.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1360	1357	1356	1362	1365	129
15°	1282	1284	1287	1297	1303	361
25°	1137	1140	1150	1166	1175	522
35°	932	933	945	964	976	580
45°	692	694	706	716	727	533
55°	464	465	468	475	482	417
65°	285	283	278	280	289	287
75°	172	165	154	153	156	182
85°	68	69	57	53	56	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1366.8	1366.8	1366.8	1366.8	1366.8
2.5°	1366.0	1363.2	1362.5	1366.8	1370.3
5°	1359.7	1356.9	1356.1	1361.8	1365.4
7.5°	1347.6	1345.5	1346.1	1351.8	1356.9
10°	1329.8	1329.1	1331.3	1338.3	1343.3
12.5°	1309.9	1308.6	1310.7	1319.9	1324.9
15°	1282.3	1283.7	1287.2	1297.2	1302.9
17.5°	1251.7	1253.2	1259.5	1269.5	1278.7
20°	1219.8	1219.1	1227.6	1241.1	1248.9
22.5°	1177.9	1181.4	1191.4	1205.6	1213.4
25°	1136.7	1139.6	1149.5	1165.9	1175.0
27.5°	1089.2	1094.1	1104.7	1120.4	1131.0
30°	1038.8	1043.0	1054.3	1072.1	1080.6
32.5°	984.0	989.7	1001.8	1021.0	1031.6
35°	931.5	933.0	945.0	963.5	975.5
37.5°	871.9	875.4	886.8	907.4	913.8
40°	812.9	815.8	826.5	843.5	852.0
42.5°	749.8	754.7	766.1	778.9	788.8
45°	692.2	694.4	705.8	716.4	727.1
47.5°	631.9	634.0	644.0	655.4	659.6
50°	572.3	575.1	582.9	594.2	603.5
52.5°	516.9	518.3	521.8	534.6	538.9
55°	464.4	465.0	467.9	475.0	482.1
57.5°	414.6	414.0	413.2	419.6	426.0
60°	367.1	365.7	364.2	369.2	377.7
62.5°	325.2	323.8	318.1	323.8	330.9
65°	285.4	283.3	277.6	280.4	289.0
67.5°	254.2	249.9	240.7	244.2	250.7
70°	224.4	218.7	208.0	210.9	215.8
72.5°	198.0	189.5	180.4	181.0	186.0
75°	171.8	164.7	154.1	152.7	156.2
77.5°	147.0	141.3	130.0	127.8	130.6
80°	122.8	117.1	105.8	101.5	107.2
82.5°	96.6	94.4	81.7	78.8	80.9
85°	68.2	68.8	56.8	53.2	56.1
87.5°	34.8	36.2	29.1	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)