

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: P225813

Luminaire Tested: **22GR-LD5-36-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225813
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-L940-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: 3185.4 lumens
Efficiency: N/A
Efficacy: 92.2 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

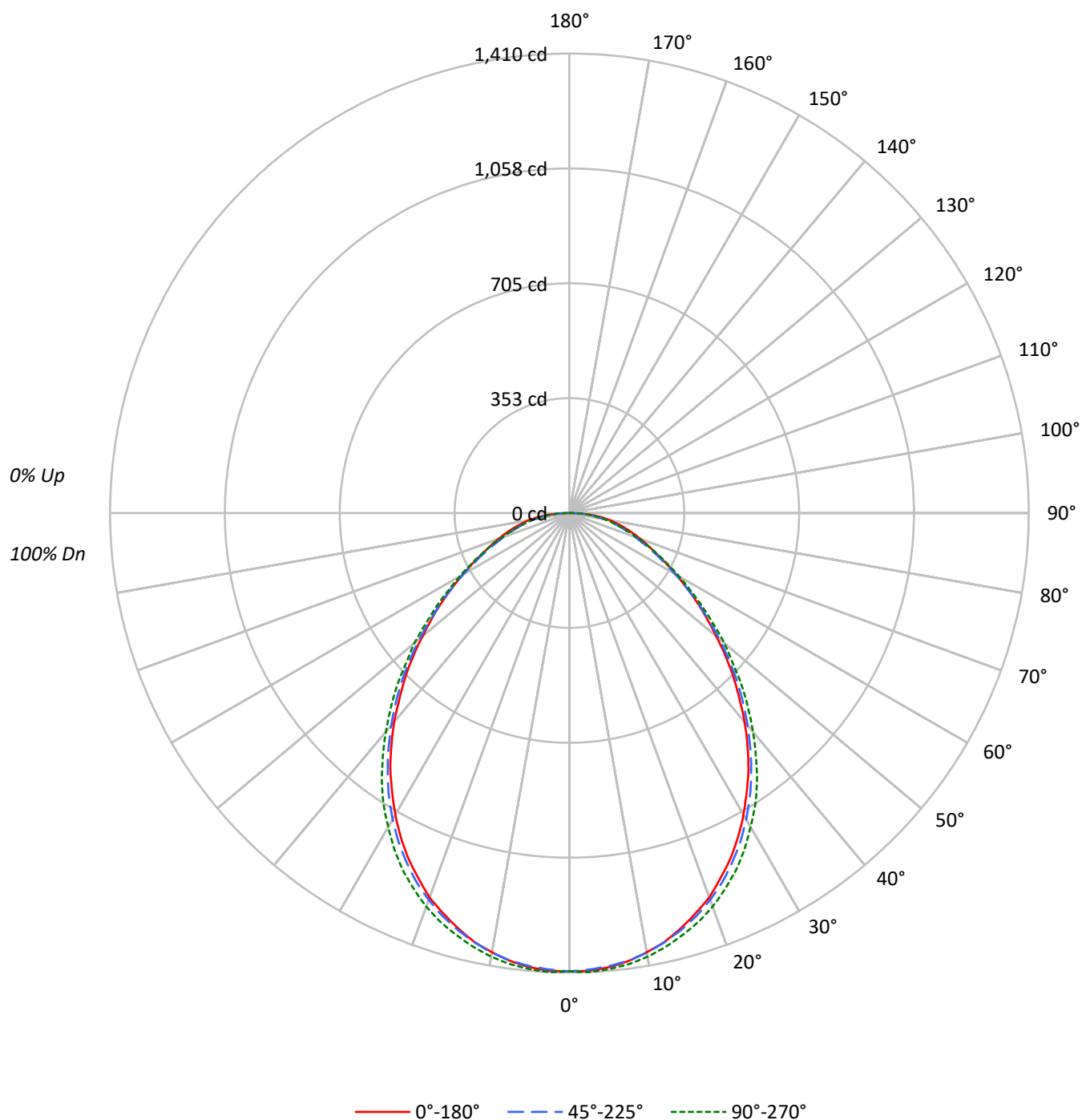
Input Watts (W): 34.56
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		95	92	90		91	89	87
2	100	93	86	81	98	91	85	80		87	82	78		84	80	76		81	78	74
3	92	82	74	68	90	81	73	68		78	72	67		75	70	65		72	68	64
4	85	73	65	59	83	72	64	58		70	63	58		67	62	57		65	60	56
5	78	66	58	51	76	65	57	51		63	56	51		61	55	50		59	54	49
6	73	60	51	45	71	59	51	45		57	50	45		56	49	44		54	48	44
7	68	55	46	40	66	54	46	40		52	45	40		51	45	40		50	44	39
8	63	50	42	36	62	49	42	36		48	41	36		47	41	36		46	40	36
9	59	46	38	33	58	46	38	33		45	38	33		43	37	33		42	37	32
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°	4504	4504	4504
5°	4497	4486	4516
10°	4450	4455	4495
15°	4374	4392	4445
20°	4278	4305	4380
25°	4133	4179	4273
30°	3953	4012	4112
35°	3748	3802	3924
40°	3497	3555	3665
45°	3226	3289	3388
50°	2934	2988	3094
55°	2668	2688	2769
60°	2419	2401	2489
65°	2226	2165	2254
70°	2161	2005	2080
75°	2188	1961	1988
80°	2331	2008	2034
85°	2579	2150	2120



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	4.2
10°-20°	373.9	11.7
20°-30°	545.0	17.1
30°-40°	609.3	19.1
40°-50°	560.3	17.6
50°-60°	434.1	13.6
60°-70°	291.0	9.1
70°-80°	174.1	5.5
80°-90°	65.1	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°	1051.6	33.0
0°-40°	1660.8	52.1
0°-60°	2655.2	83.4
0°-90°	3185.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3185.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1399	1396	1395	1401	1405	133
15°	1319	1321	1325	1335	1341	372
25°	1170	1173	1183	1200	1209	537
35°	959	960	972	991	1004	597
45°	712	714	726	737	748	549
55°	478	478	481	489	496	429
65°	294	292	286	289	297	295
75°	177	170	158	157	161	188
85°	70	71	58	55	58	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1406.4	1406.4	1406.4	1406.4	1406.4
2.5°	1405.7	1402.7	1402.0	1406.4	1410.1
5°	1399.0	1396.1	1395.4	1401.3	1404.9
7.5°	1386.7	1384.4	1385.2	1391.0	1396.1
10°	1368.4	1367.7	1369.9	1377.2	1382.3
12.5°	1348.0	1346.5	1348.7	1358.2	1363.3
15°	1319.4	1320.9	1324.6	1334.8	1340.7
17.5°	1288.0	1289.5	1296.1	1306.3	1315.8
20°	1255.2	1254.4	1263.2	1277.1	1285.1
22.5°	1212.1	1215.7	1225.9	1240.6	1248.5
25°	1169.7	1172.6	1182.8	1199.6	1209.2
27.5°	1120.8	1125.8	1136.8	1152.8	1163.8
30°	1068.9	1073.3	1084.9	1103.2	1112.0
32.5°	1012.6	1018.4	1030.9	1050.6	1061.6
35°	958.6	960.0	972.4	991.4	1003.8
37.5°	897.2	900.8	912.5	933.7	940.2
40°	836.5	839.4	850.4	867.9	876.7
42.5°	771.5	776.6	788.3	801.4	811.7
45°	712.3	714.5	726.2	737.2	748.1
47.5°	650.2	652.4	662.6	674.3	678.7
50°	588.8	591.8	599.8	611.5	621.0
52.5°	531.9	533.4	537.0	550.1	554.5
55°	477.8	478.5	481.4	488.7	496.0
57.5°	426.6	426.0	425.2	431.8	438.3
60°	377.7	376.2	374.8	379.9	388.6
62.5°	334.6	333.2	327.3	333.2	340.5
65°	293.7	291.5	285.7	288.6	297.4
67.5°	261.5	257.1	247.7	251.3	257.9
70°	230.8	225.1	214.1	217.0	222.1
72.5°	203.8	195.0	185.6	186.3	191.4
75°	176.8	169.5	158.5	157.0	160.7
77.5°	151.3	145.4	133.7	131.5	134.4
80°	126.4	120.6	108.9	104.5	110.3
82.5°	99.3	97.2	84.0	81.1	83.2
85°	70.2	70.9	58.5	54.8	57.7
87.5°	35.8	37.2	29.9	29.2	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)