

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: P225812

Luminaire Tested: **22GR-LD5-32-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225812
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-LD5-32-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: 2857.8 lumens
Efficiency: N/A
Efficacy: 95.4 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

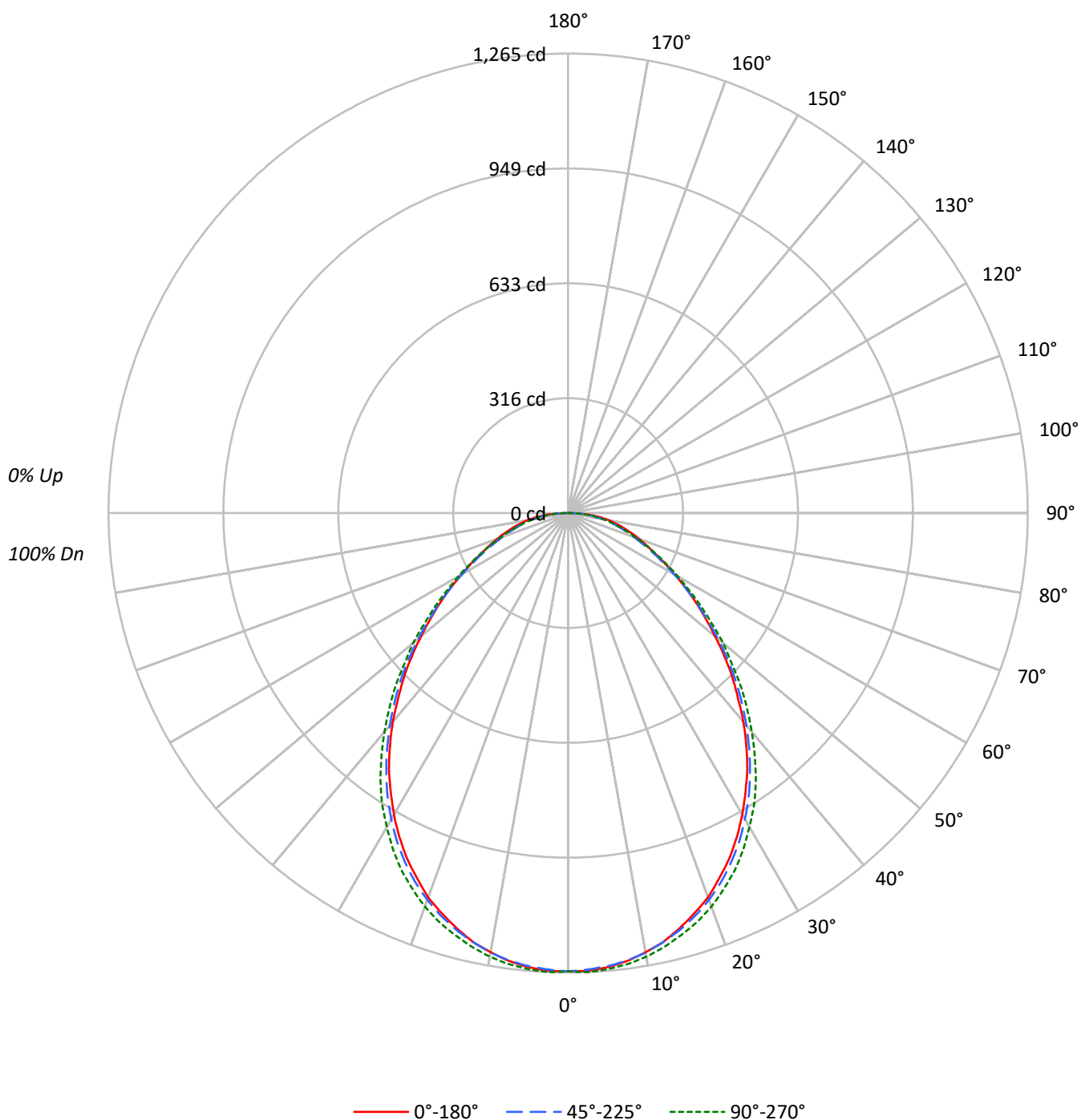
Input Watts (W): 29.95
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	105	101	97	107	103	99	96		98	95	93			95	92	90			91
2	100	93	86	81	98	91	85	80		87	82	78			84	80	76			81
3	92	82	74	68	90	81	73	68		78	72	67			75	70	65			72
4	85	73	65	59	83	72	64	58		70	63	58			67	62	57			65
5	78	66	58	51	76	65	57	51		63	56	51			61	55	50			59
6	73	60	51	45	71	59	51	45		57	50	45			56	49	44			54
7	68	55	46	40	66	54	46	40		52	45	40			51	45	40			50
8	63	50	42	36	62	49	42	36		48	41	36			47	41	36			46
9	59	46	38	33	58	46	38	33		45	38	33			43	37	33			42
10	56	43	35	30	54	42	35	30		41	35	30			40	34	30			40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4041	4041	4041
5°	4035	4025	4052
10°	3992	3996	4033
15°	3925	3940	3988
20°	3838	3862	3929
25°	3708	3750	3833
30°	3546	3599	3689
35°	3362	3411	3521
40°	3138	3189	3288
45°	2894	2951	3039
50°	2632	2681	2776
55°	2393	2412	2485
60°	2170	2154	2233
65°	1997	1942	2022
70°	1939	1798	1866
75°	1962	1760	1784
80°	2091	1802	1826
85°	2315	1929	1903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	4.2
10°-20°	335.4	11.7
20°-30°	489.0	17.1
30°-40°	546.6	19.1
40°-50°	502.7	17.6
50°-60°	389.4	13.6
60°-70°	261.1	9.1
70°-80°	156.2	5.5
80°-90°	58.4	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°	943.4	33.0
0°-40°	1490.0	52.1
0°-60°	2382.1	83.4
0°-90°	2857.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2857.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1255	1253	1252	1257	1260	119
15°	1184	1185	1188	1198	1203	333
25°	1049	1052	1061	1076	1085	482
35°	860	861	872	889	901	536
45°	639	641	652	661	671	492
55°	429	429	432	438	445	385
65°	264	262	256	259	267	265
75°	159	152	142	141	144	168
85°	63	64	52	49	52	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1261.7	1261.7	1261.7	1261.7	1261.7
2.5°	1261.1	1258.4	1257.8	1261.7	1265.0
5°	1255.2	1252.6	1251.9	1257.1	1260.4
7.5°	1244.0	1242.1	1242.7	1247.9	1252.6
10°	1227.6	1227.0	1228.9	1235.5	1240.1
12.5°	1209.3	1208.0	1209.9	1218.4	1223.1
15°	1183.7	1185.1	1188.3	1197.5	1202.7
17.5°	1155.6	1156.9	1162.7	1171.9	1180.4
20°	1126.1	1125.4	1133.2	1145.7	1152.9
22.5°	1087.4	1090.7	1099.9	1112.9	1120.2
25°	1049.4	1052.0	1061.2	1076.2	1084.7
27.5°	1005.4	1010.1	1019.9	1034.3	1044.1
30°	958.9	962.9	973.3	989.7	997.6
32.5°	908.4	913.7	924.8	942.6	952.4
35°	859.9	861.3	872.4	889.4	900.6
37.5°	804.9	808.1	818.6	837.6	843.6
40°	750.5	753.1	762.9	778.6	786.6
42.5°	692.1	696.8	707.3	719.0	728.2
45°	639.1	641.0	651.5	661.3	671.1
47.5°	583.3	585.3	594.5	605.0	608.9
50°	528.3	530.9	538.1	548.6	557.1
52.5°	477.1	478.5	481.8	493.6	497.5
55°	428.6	429.3	432.0	438.5	445.0
57.5°	382.8	382.1	381.5	387.3	393.3
60°	338.8	337.6	336.3	340.8	348.7
62.5°	300.2	298.8	293.6	298.8	305.5
65°	263.5	261.5	256.3	258.9	266.8
67.5°	234.6	230.7	222.2	225.5	231.3
70°	207.1	201.8	192.0	194.7	199.3
72.5°	182.8	175.0	166.5	167.1	171.7
75°	158.6	152.0	142.2	141.0	144.2
77.5°	135.7	130.5	120.0	118.0	120.6
80°	113.4	108.2	97.7	93.7	99.0
82.5°	89.2	87.2	75.3	72.8	74.7
85°	63.0	63.6	52.5	49.2	51.8
87.5°	32.1	33.5	26.8	26.2	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)