

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: P225818

Luminaire Tested: **22GR-LD5-28-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225818
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-LD5-28-F1-UNV-L950-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: 2681.8 lumens
Efficiency: N/A
Efficacy: 116.7 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

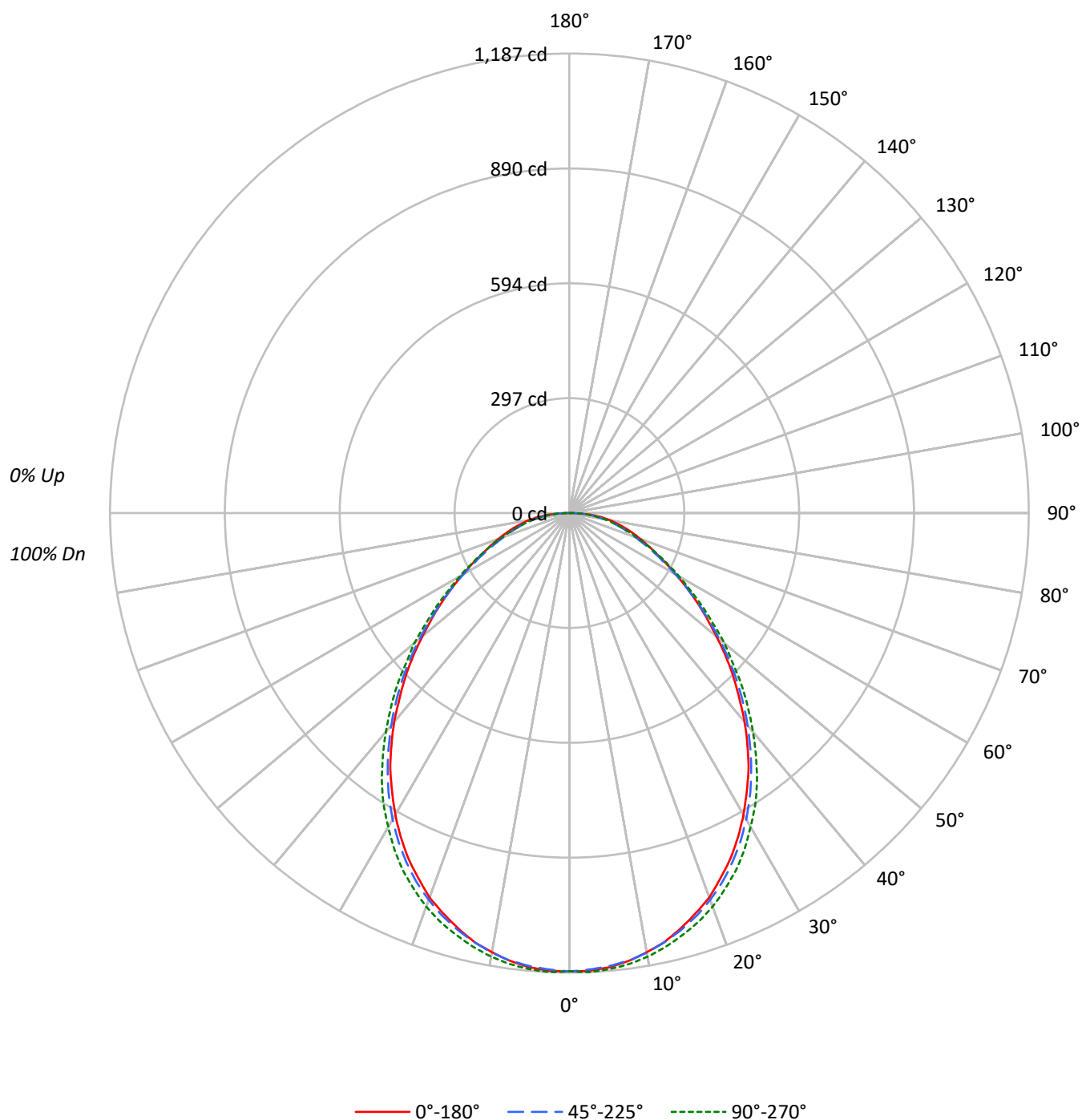
Input Watts (W): 22.986
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3792	3792	3792
5°	3787	3777	3802
10°	3747	3750	3784
15°	3683	3697	3742
20°	3601	3624	3687
25°	3479	3519	3597
30°	3327	3378	3462
35°	3155	3200	3304
40°	2944	2993	3086
45°	2716	2769	2852
50°	2470	2516	2605
55°	2246	2263	2332
60°	2037	2021	2096
65°	1873	1822	1897
70°	1820	1687	1751
75°	1842	1652	1674
80°	1962	1689	1713
85°	2172	1808	1786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	4.2
10°-20°	314.8	11.7
20°-30°	458.8	17.1
30°-40°	512.9	19.1
40°-50°	471.7	17.6
50°-60°	365.5	13.6
60°-70°	245.0	9.1
70°-80°	146.6	5.5
80°-90°	54.8	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°	885.3	33.0
0°-40°	1398.2	52.1
0°-60°	2235.4	83.4
0°-90°	2681.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2681.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1178	1175	1175	1180	1183	112
15°	1111	1112	1115	1124	1129	313
25°	985	987	996	1010	1018	452
35°	807	808	819	835	845	503
45°	600	602	611	621	630	462
55°	402	403	405	412	418	361
65°	247	245	240	243	250	249
75°	149	143	134	132	135	158
85°	59	60	49	46	49	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.0	1184.0	1184.0	1184.0	1184.0
2.5°	1183.4	1180.9	1180.4	1184.0	1187.1
5°	1177.9	1175.4	1174.8	1179.7	1182.8
7.5°	1167.4	1165.5	1166.2	1171.1	1175.4
10°	1152.1	1151.4	1153.2	1159.4	1163.7
12.5°	1134.8	1133.6	1135.4	1143.4	1147.7
15°	1110.8	1112.0	1115.1	1123.8	1128.7
17.5°	1084.4	1085.6	1091.2	1099.7	1107.7
20°	1056.7	1056.1	1063.4	1075.2	1081.9
22.5°	1020.4	1023.5	1032.1	1044.4	1051.1
25°	984.7	987.2	995.8	1009.9	1017.9
27.5°	943.5	947.9	957.0	970.6	979.8
30°	899.8	903.5	913.4	928.7	936.1
32.5°	852.5	857.4	867.9	884.5	893.7
35°	807.0	808.2	818.6	834.7	845.1
37.5°	755.3	758.4	768.2	786.1	791.6
40°	704.2	706.7	716.0	730.7	738.1
42.5°	649.6	653.8	663.7	674.8	683.3
45°	599.7	601.5	611.3	620.6	629.8
47.5°	547.5	549.3	557.8	567.7	571.4
50°	495.8	498.2	505.0	514.8	522.8
52.5°	447.8	449.0	452.1	463.2	466.8
55°	402.2	402.9	405.3	411.5	417.6
57.5°	359.2	358.6	358.0	363.5	369.0
60°	318.0	316.8	315.5	319.9	327.2
62.5°	281.7	280.5	275.5	280.5	286.7
65°	247.2	245.4	240.5	243.0	250.3
67.5°	220.2	216.5	208.5	211.6	217.1
70°	194.4	189.5	180.2	182.6	187.0
72.5°	171.6	164.3	156.2	156.9	161.2
75°	148.9	142.7	133.5	132.2	135.3
77.5°	127.3	122.4	112.6	110.7	113.2
80°	106.4	101.5	91.6	88.0	92.9
82.5°	83.6	81.8	70.7	68.2	70.2
85°	59.1	59.7	49.2	46.1	48.6
87.5°	30.1	31.4	25.2	24.6	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)