

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: P225817

Luminaire Tested: **22GR-LD5-24-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225817
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-LD5-24-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: 2275.9 lumens
Efficiency: N/A
Efficacy: 118.4 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

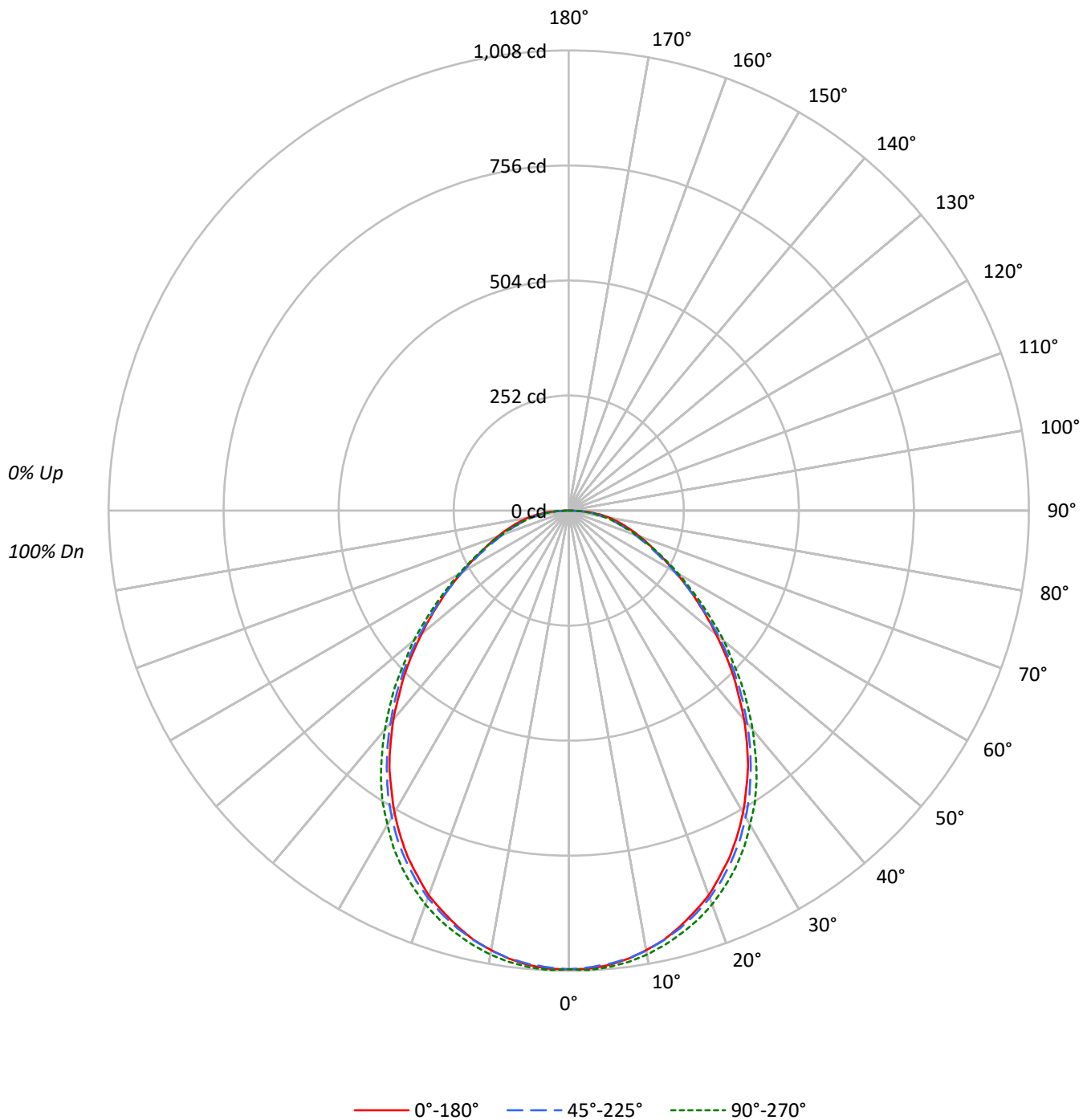
Input Watts (W): 19.219
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225817

CATALOG NUMBER: 22GR-LD5-24-F1-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225817

CATALOG NUMBER: 22GR-LD5-24-F1-UNV-L950-CD1-U

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°	3218	3218	3218
5°	3213	3205	3227
10°	3179	3183	3212
15°	3125	3138	3176
20°	3056	3076	3129
25°	2953	2986	3053
30°	2824	2866	2938
35°	2678	2716	2804
40°	2499	2540	2619
45°	2305	2350	2421
50°	2096	2135	2211
55°	1906	1921	1979
60°	1729	1715	1779
65°	1590	1547	1610
70°	1545	1433	1486
75°	1563	1402	1420
80°	1665	1435	1453
85°	1841	1536	1514



TEST NUMBER: P225817

CATALOG NUMBER: 22GR-LD5-24-F1-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	4.2
10°-20°	267.1	11.7
20°-30°	389.4	17.1
30°-40°	435.3	19.1
40°-50°	400.3	17.6
50°-60°	310.1	13.6
60°-70°	207.9	9.1
70°-80°	124.4	5.5
80°-90°	46.5	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°	751.3	33.0
0°-40°	1186.6	52.1
0°-60°	1897.1	83.4
0°-90°	2275.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2275.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	1000	998	997	1001	1004	95
15°	943	944	946	954	958	266
25°	836	838	845	857	864	384
35°	685	686	695	708	717	427
45°	509	510	519	527	534	392
55°	341	342	344	349	354	306
65°	210	208	204	206	212	211
75°	126	121	113	112	115	134
85°	50	51	42	39	41	52
90°	0	0	0	0	0	



TEST NUMBER: P225817

CATALOG NUMBER: 22GR-LD5-24-F1-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1004.8	1004.8	1004.8	1004.8	1004.8
2.5°	1004.3	1002.2	1001.7	1004.8	1007.5
5°	999.6	997.5	997.0	1001.2	1003.8
7.5°	990.7	989.2	989.7	993.9	997.5
10°	977.7	977.2	978.7	984.0	987.6
12.5°	963.1	962.1	963.6	970.3	974.1
15°	942.7	943.8	946.4	953.7	957.9
17.5°	920.3	921.3	926.0	933.3	940.1
20°	896.8	896.3	902.5	912.5	918.2
22.5°	866.0	868.6	875.9	886.3	892.1
25°	835.7	837.7	845.1	857.1	863.9
27.5°	800.7	804.3	812.2	823.7	831.6
30°	763.7	766.8	775.1	788.2	794.4
32.5°	723.4	727.6	736.6	750.7	758.5
35°	684.9	685.9	694.8	708.3	717.2
37.5°	641.0	643.6	651.9	667.1	671.8
40°	597.7	599.8	607.6	620.2	626.4
42.5°	551.2	554.9	563.2	572.7	579.9
45°	509.0	510.5	518.9	526.7	534.5
47.5°	464.6	466.1	473.5	481.8	484.9
50°	420.7	422.8	428.5	436.9	443.7
52.5°	380.0	381.0	383.7	393.0	396.2
55°	341.3	341.9	344.0	349.2	354.4
57.5°	304.8	304.3	303.8	308.5	313.2
60°	269.9	268.8	267.8	271.5	277.7
62.5°	239.1	238.1	233.9	238.1	243.2
65°	209.8	208.3	204.1	206.2	212.5
67.5°	186.9	183.7	177.0	179.5	184.3
70°	165.0	160.8	153.0	155.1	158.7
72.5°	145.6	139.4	132.6	133.1	136.8
75°	126.3	121.1	113.3	112.2	114.8
77.5°	108.0	103.8	95.6	94.0	96.0
80°	90.3	86.1	77.8	74.6	78.8
82.5°	71.0	69.4	60.1	58.0	59.5
85°	50.1	50.6	41.8	39.1	41.2
87.5°	25.6	26.7	21.4	20.8	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)