

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: P225900

Luminaire Tested: **14GR-LD5-24-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35602)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-F1-UNV-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2244.1 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

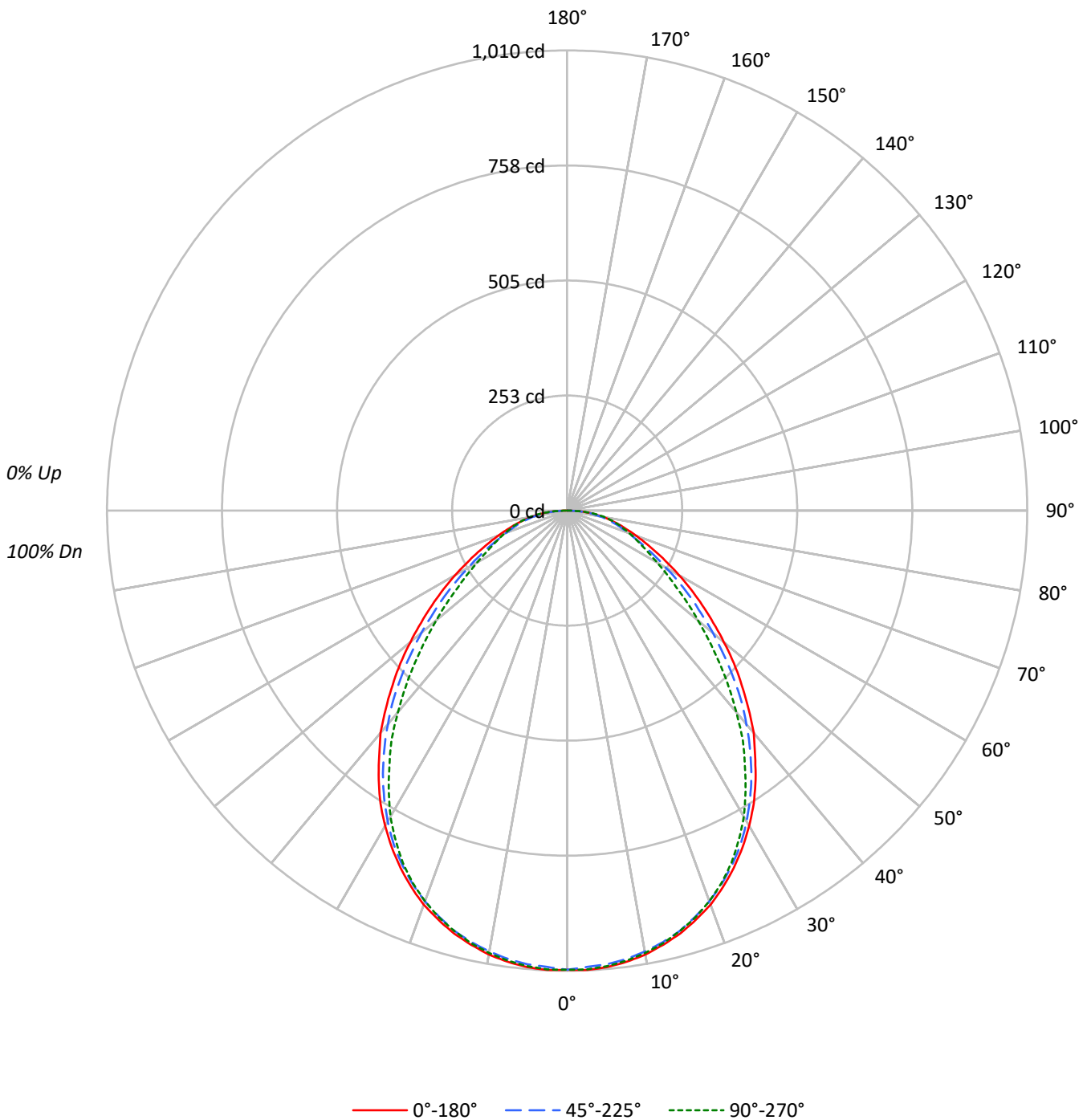
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225900

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225900

CATALOG NUMBER: 14GR-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	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45		56	50	45		55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37		48	41	37		46	41	36	34
9	60	47	39	34	58	46	39	34	45	38	33		44	38	33		43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	30		41	35	30		40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3396	3396	3396
5°	3402	3381	3395
10°	3386	3362	3373
15°	3351	3331	3333
20°	3300	3272	3270
25°	3217	3188	3171
30°	3110	3066	3019
35°	2967	2900	2797
40°	2802	2693	2539
45°	2584	2449	2252
50°	2353	2189	1966
55°	2127	1936	1714
60°	1913	1684	1532
65°	1717	1504	1437
70°	1584	1399	1425
75°	1527	1385	1500
80°	1535	1442	1626
85°	1639	1500	1701



TEST NUMBER: P225900

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	4.2
10°-20°	269.7	12.0
20°-30°	394.7	17.6
30°-40°	438.7	19.5
40°-50°	394.4	17.6
50°-60°	294.9	13.1
60°-70°	194.2	8.7
70°-80°	118.1	5.3
80°-90°	44.2	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°	759.6	33.8
0°-40°	1198.3	53.4
0°-60°	1887.6	84.1
0°-90°	2244.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2244.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1006	1004	1000	1005	1004	95
15°	961	959	955	958	956	271
25°	865	864	858	856	853	398
35°	721	718	705	690	680	450
45°	542	536	514	486	472	418
55°	362	354	330	302	292	325
65°	215	208	189	181	180	215
75°	117	112	106	112	115	125
85°	42	39	39	45	44	45
90°	0	0	0	0	0	



TEST NUMBER: P225900

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.9	1007.9	1007.9	1007.9	1007.9
2.5°	1009.5	1007.4	1002.6	1008.4	1007.9
5°	1005.8	1003.7	999.5	1004.7	1003.7
7.5°	999.0	996.4	992.7	997.9	996.4
10°	989.5	986.9	982.7	988.5	985.9
12.5°	975.9	974.3	970.2	974.3	972.8
15°	960.7	958.6	955.0	958.1	955.5
17.5°	941.3	939.2	935.0	939.2	936.1
20°	920.4	917.7	912.5	915.6	912.0
22.5°	894.2	891.6	886.9	888.4	885.3
25°	865.4	863.9	857.5	855.9	852.9
27.5°	833.5	830.8	825.1	821.9	815.6
30°	799.3	796.8	787.9	782.6	775.8
32.5°	762.2	758.0	747.6	738.6	728.6
35°	721.4	717.6	705.1	689.9	680.0
37.5°	677.3	675.2	659.5	640.6	632.8
40°	637.0	629.2	612.3	589.3	577.3
42.5°	588.8	583.6	565.7	540.1	524.9
45°	542.2	536.4	513.9	486.1	472.5
47.5°	496.6	490.3	464.6	437.4	421.7
50°	448.9	443.7	417.5	387.1	375.1
52.5°	404.4	397.6	370.4	343.2	332.6
55°	362.0	354.1	329.5	302.3	291.7
57.5°	321.7	312.2	288.7	265.1	258.3
60°	283.9	273.5	249.9	232.6	227.3
62.5°	247.2	239.4	218.4	205.4	202.2
65°	215.3	207.5	188.6	180.7	180.2
67.5°	186.0	178.1	163.4	161.3	162.4
70°	160.8	154.0	142.0	143.1	144.6
72.5°	137.2	130.9	123.7	126.2	129.4
75°	117.3	112.1	106.4	111.6	115.2
77.5°	98.5	93.3	90.1	95.4	99.6
80°	79.1	75.4	74.3	80.2	83.8
82.5°	61.3	58.1	56.6	63.9	65.5
85°	42.4	39.3	38.8	45.0	44.0
87.5°	22.6	19.9	19.9	23.6	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)