

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: P225881

Luminaire Tested: **14GR-LD5-28-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225881
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-LD5-28-F1-UNV-L930-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: 2286.7 lumens
Efficiency: N/A
Efficacy: 91.8 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

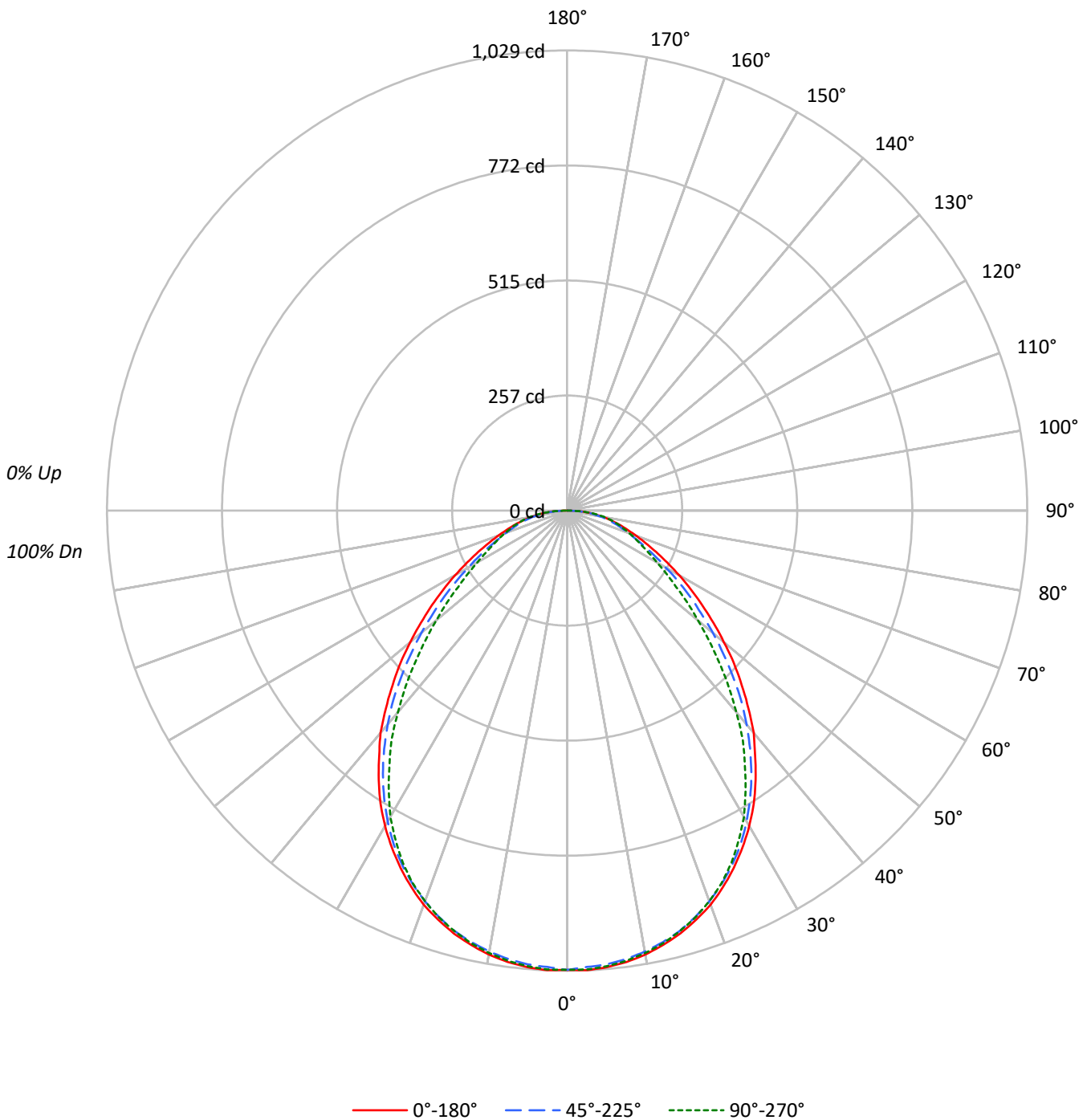
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225881

CATALOG NUMBER: 14GR-LD5-28-F1-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225881

CATALOG NUMBER: 14GR-LD5-28-F1-UNV-L930-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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	34					34			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3461	3461	3461
5°	3467	3445	3459
10°	3450	3426	3437
15°	3415	3395	3396
20°	3363	3334	3333
25°	3278	3249	3231
30°	3169	3124	3076
35°	3023	2955	2850
40°	2855	2745	2587
45°	2632	2495	2294
50°	2398	2231	2004
55°	2167	1972	1747
60°	1950	1716	1561
65°	1749	1532	1464
70°	1614	1426	1451
75°	1557	1411	1528
80°	1564	1471	1657
85°	1670	1527	1732



TEST NUMBER: P225881

CATALOG NUMBER: 14GR-LD5-28-F1-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	4.2
10°-20°	274.8	12.0
20°-30°	402.2	17.6
30°-40°	447.0	19.5
40°-50°	401.9	17.6
50°-60°	300.5	13.1
60°-70°	197.9	8.7
70°-80°	120.3	5.3
80°-90°	45.0	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°	774.0	33.8
0°-40°	1221.1	53.4
0°-60°	1923.5	84.1
0°-90°	2286.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2286.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1025	1023	1018	1024	1023	97
15°	979	977	973	976	974	276
25°	882	880	874	872	869	405
35°	735	731	718	703	693	459
45°	552	547	524	495	482	426
55°	369	361	336	308	297	331
65°	219	211	192	184	184	219
75°	120	114	108	114	117	127
85°	43	40	40	46	45	46
90°	0	0	0	0	0	



TEST NUMBER: P225881

CATALOG NUMBER: 14GR-LD5-28-F1-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027.0	1027.0	1027.0	1027.0	1027.0
2.5°	1028.6	1026.5	1021.6	1027.5	1027.0
5°	1024.9	1022.7	1018.5	1023.8	1022.7
7.5°	1017.9	1015.3	1011.5	1016.8	1015.3
10°	1008.3	1005.6	1001.4	1007.3	1004.5
12.5°	994.4	992.8	988.6	992.8	991.3
15°	979.0	976.8	973.1	976.3	973.6
17.5°	959.2	957.1	952.8	957.1	953.8
20°	937.9	935.2	929.8	933.1	929.4
22.5°	911.2	908.5	903.7	905.3	902.1
25°	881.8	880.2	873.8	872.2	869.0
27.5°	849.3	846.6	840.7	837.5	831.1
30°	814.6	811.9	802.8	797.5	790.6
32.5°	776.6	772.4	761.7	752.6	742.5
35°	735.0	731.3	718.4	703.0	692.9
37.5°	690.1	688.1	672.1	652.8	644.8
40°	649.1	641.1	624.0	600.5	588.2
42.5°	600.0	594.6	576.5	550.4	534.9
45°	552.4	546.6	523.6	495.3	481.5
47.5°	506.1	499.7	473.4	445.7	429.7
50°	457.5	452.1	425.5	394.5	382.2
52.5°	412.1	405.1	377.4	349.6	339.0
55°	368.9	360.8	335.7	308.0	297.3
57.5°	327.8	318.1	294.2	270.1	263.2
60°	289.3	278.6	254.6	237.0	231.7
62.5°	252.0	243.9	222.6	209.2	206.0
65°	219.4	211.4	192.1	184.2	183.6
67.5°	189.5	181.5	166.6	164.4	165.5
70°	163.8	157.0	144.7	145.7	147.3
72.5°	139.9	133.5	126.0	128.6	131.8
75°	119.6	114.2	108.4	113.7	117.4
77.5°	100.3	95.0	91.8	97.1	101.4
80°	80.6	76.9	75.8	81.7	85.4
82.5°	62.4	59.3	57.7	65.2	66.7
85°	43.2	40.0	39.5	45.9	44.8
87.5°	23.0	20.3	20.3	24.0	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)