

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: P225922

Luminaire Tested: **14GR-LD5-28-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-A-UNV-L940-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2477.6 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

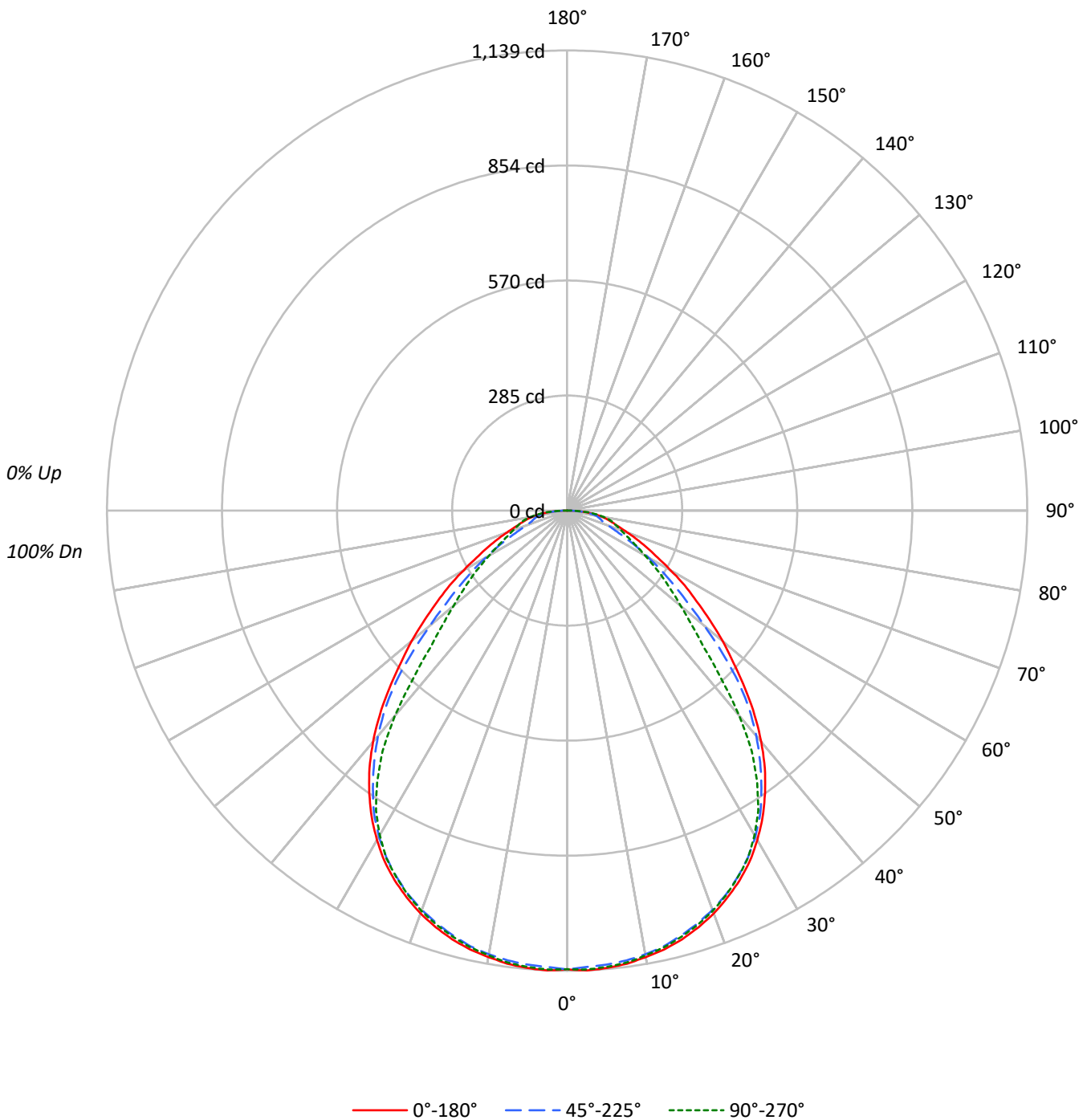
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3826	3826	3826
5°	3844	3815	3835
10°	3839	3816	3826
15°	3832	3798	3810
20°	3805	3770	3781
25°	3755	3719	3721
30°	3663	3625	3609
35°	3513	3449	3371
40°	3288	3204	2916
45°	2970	2857	2279
50°	2634	2320	1928
55°	2299	1903	1701
60°	1993	1567	1501
65°	1748	1257	1386
70°	1559	1066	1395
75°	1521	1124	1558
80°	1686	1418	1787
85°	1759	1512	2092



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	4.3
10°-20°	308.6	12.5
20°-30°	461.6	18.6
30°-40°	521.1	21.0
40°-50°	442.1	17.8
50°-60°	299.1	12.1
60°-70°	178.5	7.2
70°-80°	111.8	4.5
80°-90°	47.0	1.9
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°	877.9	35.4
0°-40°	1399.1	56.5
0°-60°	2140.2	86.4
0°-90°	2477.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2477.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1136	1133	1128	1136	1134	108
15°	1099	1096	1089	1096	1092	310
25°	1010	1006	1000	1005	1001	464
35°	854	848	838	831	819	532
45°	623	626	600	514	478	480
55°	391	373	324	290	290	352
65°	219	182	158	168	174	219
75°	117	104	86	114	120	126
85°	46	43	39	51	54	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135.4	1135.4	1135.4	1135.4	1135.4
2.5°	1139.4	1136.0	1130.7	1137.7	1137.1
5°	1136.5	1133.0	1127.9	1136.0	1133.7
7.5°	1131.3	1128.5	1123.2	1130.7	1128.5
10°	1122.1	1119.8	1115.2	1121.5	1118.1
12.5°	1112.3	1110.6	1104.8	1110.6	1107.2
15°	1098.6	1096.2	1088.8	1096.2	1092.2
17.5°	1081.3	1078.4	1072.1	1078.4	1074.9
20°	1061.2	1057.7	1051.4	1057.7	1054.3
22.5°	1037.0	1034.1	1028.3	1034.1	1029.5
25°	1009.9	1006.5	1000.2	1004.7	1000.7
27.5°	978.9	974.2	968.5	972.0	969.6
30°	941.4	935.7	931.6	931.6	927.6
32.5°	900.6	896.6	889.7	885.6	880.5
35°	854.0	848.2	838.4	830.9	819.4
37.5°	803.9	797.0	784.9	765.9	750.4
40°	747.5	738.9	728.5	691.1	662.9
42.5°	687.1	685.3	667.5	603.6	564.5
45°	623.2	625.5	599.6	513.8	478.2
47.5°	558.7	566.8	519.6	435.6	417.2
50°	502.4	505.2	442.6	378.1	367.7
52.5°	444.3	439.6	377.5	332.6	325.2
55°	391.3	372.9	324.0	290.0	289.5
57.5°	344.7	310.7	276.8	251.5	254.4
60°	295.8	257.8	232.5	218.7	222.7
62.5°	252.6	216.4	193.9	189.9	196.8
65°	219.2	181.8	157.6	168.0	173.8
67.5°	187.6	155.9	128.3	153.1	155.4
70°	158.2	135.2	108.2	141.0	141.6
72.5°	134.1	119.7	93.8	127.7	129.5
75°	116.8	104.1	86.3	114.0	119.7
77.5°	102.4	89.2	80.0	98.4	108.2
80°	86.9	71.9	73.1	82.3	92.1
82.5°	66.7	55.8	58.1	67.9	74.8
85°	45.5	43.2	39.1	50.7	54.1
87.5°	24.2	23.0	20.1	28.8	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)