

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: P257159

Luminaire Tested: **14GR-LD5-20-F125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P257159
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-LD5-20-F125-UNV-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH F125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1877.4 lumens
Efficiency: N/A
Efficacy: 108.5 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

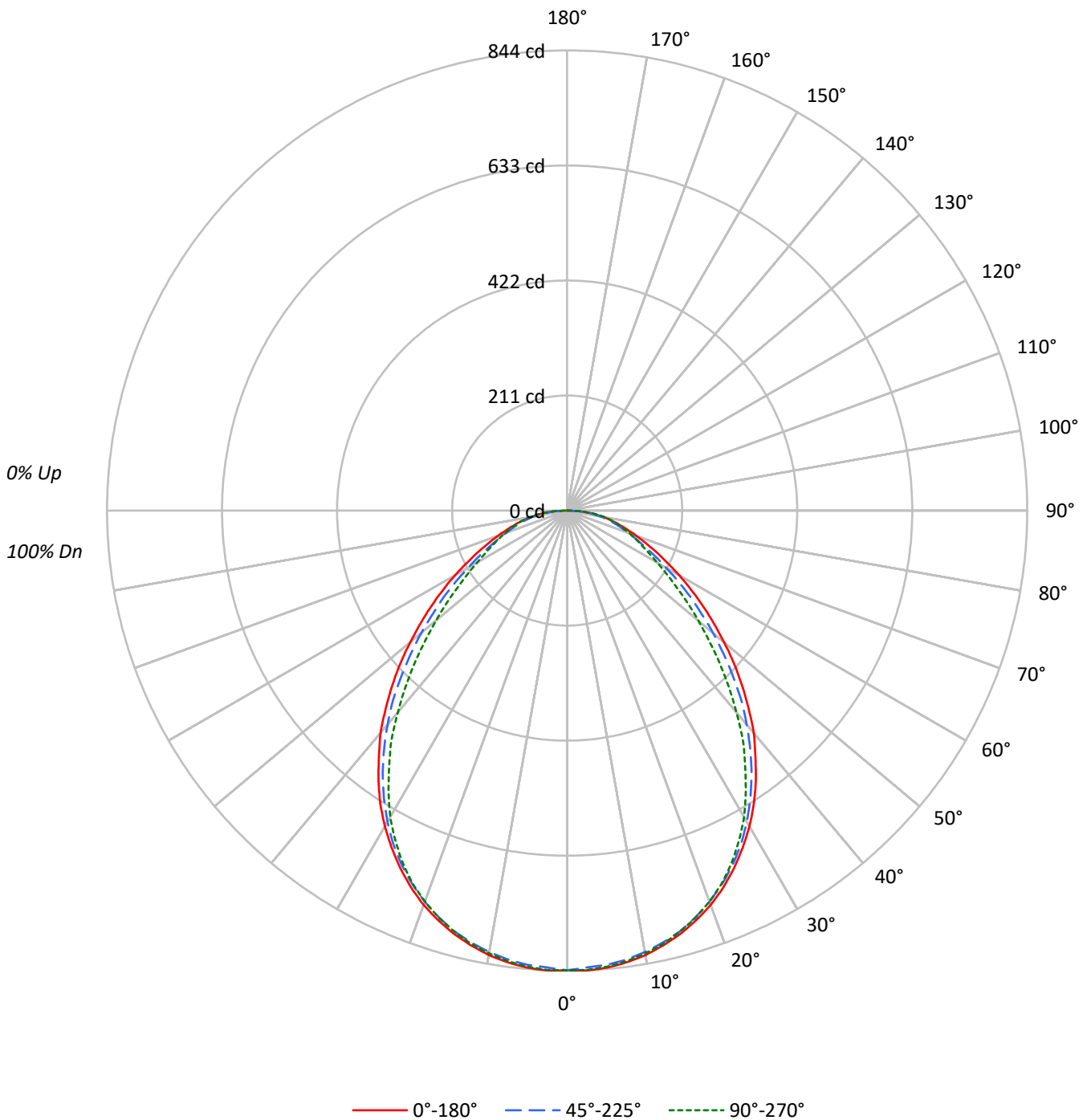
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	36	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°	2841	2841	2841
5°	2846	2828	2840
10°	2832	2813	2822
15°	2804	2787	2788
20°	2761	2737	2736
25°	2692	2667	2652
30°	2602	2564	2525
35°	2482	2427	2340
40°	2344	2253	2124
45°	2161	2049	1884
50°	1969	1831	1645
55°	1779	1619	1434
60°	1601	1408	1282
65°	1436	1258	1202
70°	1325	1170	1191
75°	1278	1159	1255
80°	1285	1207	1362
85°	1372	1253	1427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	4.2
10°-20°	225.6	12.0
20°-30°	330.2	17.6
30°-40°	367.0	19.5
40°-50°	329.9	17.6
50°-60°	246.7	13.1
60°-70°	162.5	8.7
70°-80°	98.8	5.3
80°-90°	37.0	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°	635.5	33.8
0°-40°	1002.5	53.4
0°-60°	1579.1	84.1
0°-90°	1877.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1877.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	841	840	836	841	840	80
15°	804	802	799	802	799	226
25°	724	723	717	716	713	333
35°	603	600	590	577	569	377
45°	454	449	430	407	395	350
55°	303	296	276	253	244	272
65°	180	174	158	151	151	180
75°	98	94	89	93	96	104
85°	36	33	32	38	37	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	843.2	843.2	843.2	843.2	843.2
2.5°	844.5	842.8	838.7	843.6	843.2
5°	841.4	839.7	836.2	840.6	839.7
7.5°	835.7	833.6	830.5	834.8	833.6
10°	827.8	825.6	822.1	826.9	824.7
12.5°	816.5	815.1	811.6	815.1	813.8
15°	803.7	802.0	798.9	801.5	799.3
17.5°	787.5	785.8	782.2	785.8	783.1
20°	770.0	767.8	763.4	766.0	762.9
22.5°	748.1	745.8	741.9	743.3	740.6
25°	724.0	722.6	717.4	716.1	713.4
27.5°	697.2	695.1	690.2	687.6	682.3
30°	668.8	666.6	659.1	654.7	649.0
32.5°	637.6	634.1	625.4	617.9	609.6
35°	603.4	600.4	589.9	577.1	568.8
37.5°	566.7	564.9	551.7	536.0	529.3
40°	532.9	526.3	512.3	493.0	482.9
42.5°	492.6	488.2	473.3	451.8	439.1
45°	453.5	448.7	429.9	406.7	395.3
47.5°	415.4	410.2	388.8	365.9	352.8
50°	375.6	371.2	349.3	323.9	313.8
52.5°	338.3	332.6	309.9	287.0	278.3
55°	302.8	296.2	275.6	252.9	244.1
57.5°	269.1	261.2	241.4	221.8	216.0
60°	237.5	228.8	209.0	194.6	190.2
62.5°	206.8	200.3	182.7	171.8	169.2
65°	180.1	173.5	157.8	151.2	150.8
67.5°	155.6	149.0	136.8	135.0	135.9
70°	134.5	128.9	118.8	119.7	120.9
72.5°	114.8	109.6	103.5	105.7	108.2
75°	98.2	93.8	89.0	93.4	96.4
77.5°	82.4	78.0	75.3	79.7	83.3
80°	66.2	63.1	62.2	67.1	70.2
82.5°	51.2	48.7	47.3	53.5	54.8
85°	35.5	32.9	32.4	37.7	36.9
87.5°	18.8	16.7	16.7	19.7	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)