

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: P225886

Luminaire Tested: **14GR-LD5-20-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225886
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-F1-UNV-L935-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: 1724.7 lumens
Efficiency: N/A
Efficacy: 99.7 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

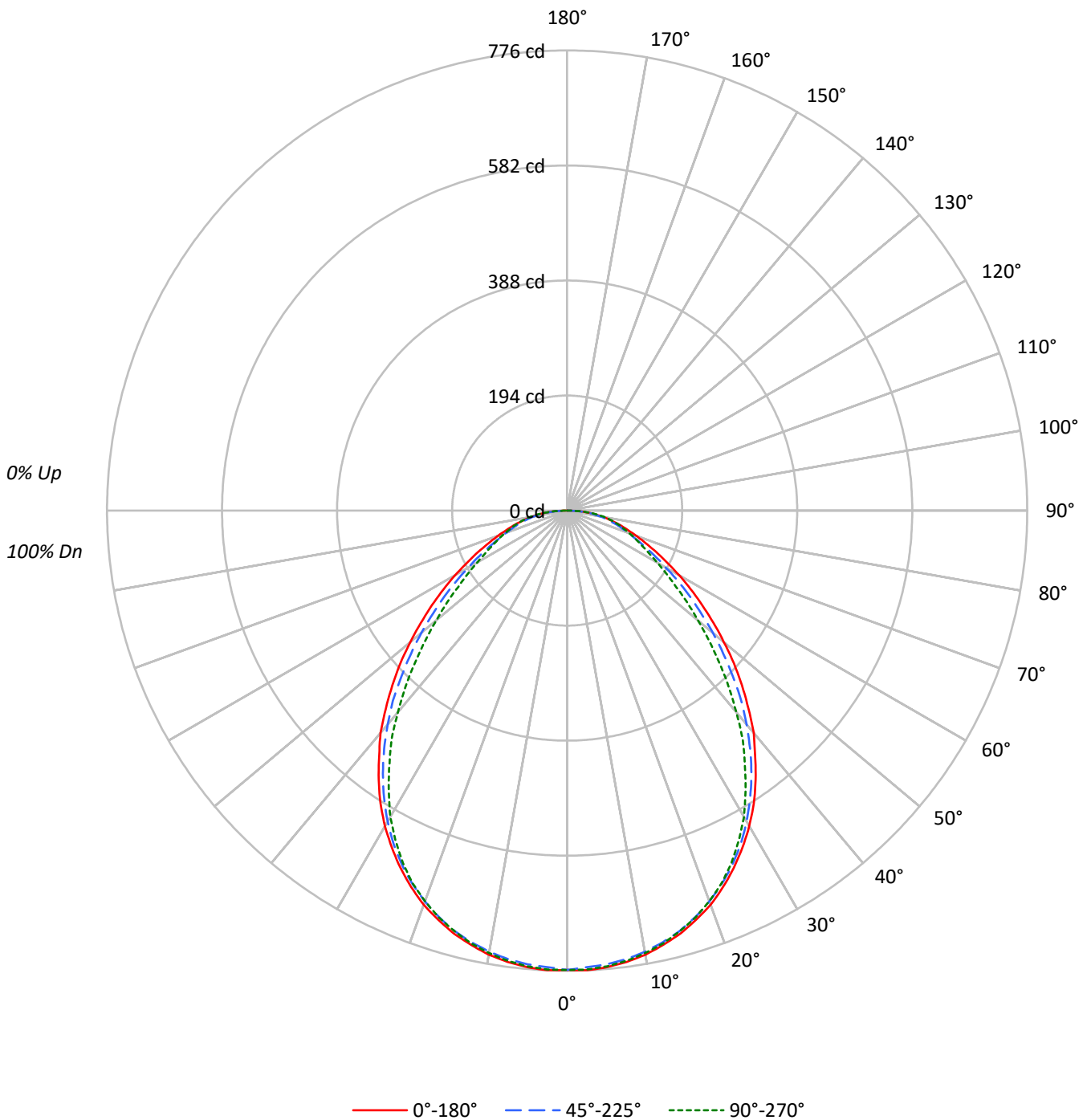
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2610	2610	2610
5°	2615	2598	2609
10°	2602	2584	2593
15°	2576	2560	2562
20°	2537	2515	2513
25°	2473	2450	2437
30°	2391	2356	2320
35°	2281	2229	2150
40°	2153	2070	1952
45°	1986	1882	1730
50°	1809	1682	1511
55°	1634	1487	1317
60°	1470	1294	1178
65°	1320	1155	1104
70°	1218	1075	1095
75°	1174	1064	1153
80°	1180	1110	1250
85°	1260	1152	1307



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	4.2
10°-20°	207.3	12.0
20°-30°	303.4	17.6
30°-40°	337.2	19.5
40°-50°	303.1	17.6
50°-60°	226.7	13.1
60°-70°	149.3	8.7
70°-80°	90.7	5.3
80°-90°	33.9	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°	583.8	33.8
0°-40°	921.0	53.4
0°-60°	1450.7	84.1
0°-90°	1724.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1724.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	773	771	768	772	771	73
15°	738	737	734	736	734	208
25°	665	664	659	658	655	306
35°	554	552	542	530	523	346
45°	417	412	395	374	363	321
55°	278	272	253	232	224	250
65°	166	160	145	139	138	166
75°	90	86	82	86	89	96
85°	33	30	30	35	34	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	774.6	774.6	774.6	774.6	774.6
2.5°	775.8	774.2	770.5	775.0	774.6
5°	773.0	771.4	768.1	772.1	771.4
7.5°	767.7	765.8	763.0	767.0	765.8
10°	760.5	758.5	755.3	759.7	757.7
12.5°	750.0	748.8	745.6	748.8	747.7
15°	738.4	736.8	733.9	736.4	734.3
17.5°	723.4	721.8	718.7	721.8	719.4
20°	707.4	705.3	701.3	703.7	700.9
22.5°	687.2	685.2	681.6	682.8	680.4
25°	665.1	663.8	659.1	657.8	655.4
27.5°	640.6	638.5	634.1	631.6	626.9
30°	614.4	612.3	605.5	601.5	596.3
32.5°	585.7	582.6	574.5	567.6	560.0
35°	554.4	551.6	541.9	530.2	522.6
37.5°	520.5	518.9	506.9	492.4	486.4
40°	489.5	483.5	470.6	452.9	443.7
42.5°	452.5	448.5	434.8	415.1	403.4
45°	416.7	412.2	394.9	373.6	363.1
47.5°	381.6	376.8	357.1	336.2	324.1
50°	345.0	341.0	320.9	297.5	288.2
52.5°	310.8	305.6	284.7	263.7	255.7
55°	278.2	272.2	253.2	232.3	224.2
57.5°	247.2	240.0	221.8	203.7	198.5
60°	218.2	210.1	192.0	178.8	174.8
62.5°	190.1	184.0	167.9	157.8	155.4
65°	165.5	159.5	144.9	138.9	138.5
67.5°	142.9	136.8	125.6	124.0	124.8
70°	123.6	118.4	109.1	109.9	111.1
72.5°	105.5	100.6	95.0	97.0	99.4
75°	90.2	86.2	81.7	85.8	88.6
77.5°	75.6	71.7	69.3	73.3	76.5
80°	60.8	58.0	57.2	61.6	64.4
82.5°	47.1	44.7	43.5	49.1	50.3
85°	32.6	30.2	29.8	34.6	33.8
87.5°	17.3	15.3	15.3	18.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)