

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: P225892

Luminaire Tested: **14GR-LD5-20-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225892
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-L940-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: 1774.2 lumens
Efficiency: N/A
Efficacy: 102.6 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

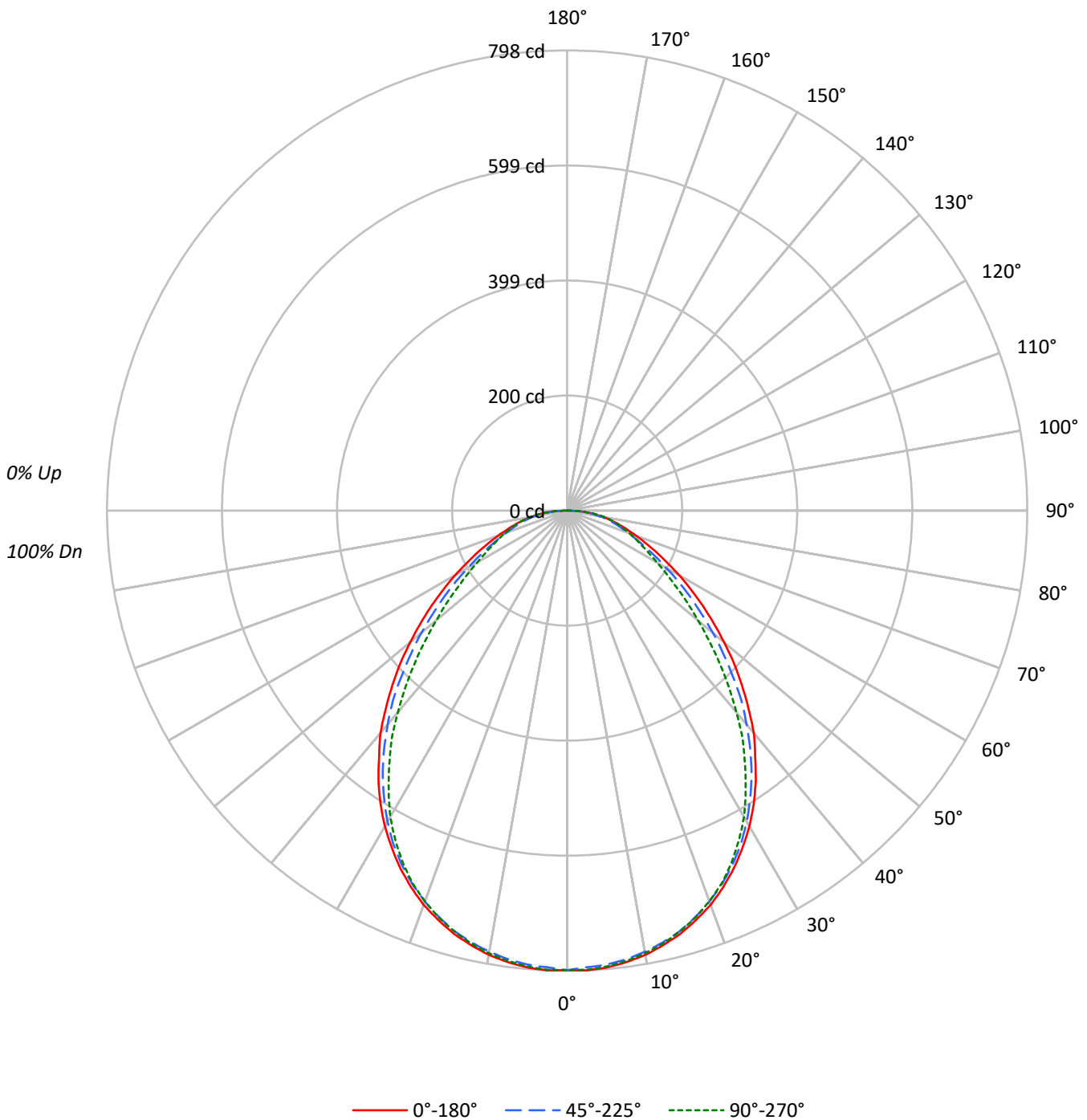
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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				
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°	2685	2685	2685
5°	2690	2673	2684
10°	2677	2658	2667
15°	2650	2634	2635
20°	2609	2587	2585
25°	2544	2520	2507
30°	2459	2424	2387
35°	2346	2293	2211
40°	2215	2130	2008
45°	2042	1936	1780
50°	1860	1730	1554
55°	1681	1530	1355
60°	1513	1331	1211
65°	1357	1189	1136
70°	1252	1105	1126
75°	1208	1095	1186
80°	1213	1141	1287
85°	1295	1183	1345



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	4.2
10°-20°	213.2	12.0
20°-30°	312.1	17.6
30°-40°	346.9	19.6
40°-50°	311.8	17.6
50°-60°	233.1	13.1
60°-70°	153.5	8.7
70°-80°	93.3	5.3
80°-90°	34.9	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°	600.6	33.9
0°-40°	947.4	53.4
0°-60°	1492.4	84.1
0°-90°	1774.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1774.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	797	797	797	797	797	
5°	795	794	790	794	794	75
15°	760	758	755	758	755	214
25°	684	683	678	677	674	315
35°	570	567	558	545	538	356
45°	429	424	406	384	374	331
55°	286	280	260	239	231	257
65°	170	164	149	143	142	170
75°	93	89	84	88	91	99
85°	34	31	31	36	35	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	796.9	796.9	796.9	796.9	796.9
2.5°	798.1	796.4	792.7	797.2	796.9
5°	795.2	793.5	790.3	794.4	793.5
7.5°	789.8	787.8	784.8	789.0	787.8
10°	782.3	780.3	776.9	781.5	779.4
12.5°	771.6	770.3	767.0	770.3	769.1
15°	759.6	757.9	755.0	757.5	755.4
17.5°	744.2	742.6	739.3	742.6	740.1
20°	727.6	725.6	721.5	723.9	721.0
22.5°	707.0	704.9	701.2	702.4	700.0
25°	684.2	682.9	677.9	676.7	674.2
27.5°	658.9	656.9	652.3	649.8	644.8
30°	632.0	630.0	622.9	618.8	613.4
32.5°	602.6	599.2	591.0	583.9	576.1
35°	570.3	567.4	557.5	545.4	537.6
37.5°	535.5	533.9	521.4	506.5	500.3
40°	503.6	497.4	484.2	465.9	456.4
42.5°	465.5	461.4	447.3	427.0	415.0
45°	428.6	424.1	406.3	384.3	373.6
47.5°	392.6	387.7	367.4	345.8	333.4
50°	354.9	350.8	330.1	306.1	296.5
52.5°	319.7	314.3	292.8	271.2	263.0
55°	286.2	279.9	260.5	239.0	230.7
57.5°	254.3	246.8	228.2	209.6	204.2
60°	224.5	216.2	197.5	183.9	179.7
62.5°	195.5	189.3	172.7	162.4	159.9
65°	170.2	164.0	149.1	142.8	142.5
67.5°	147.1	140.8	129.3	127.5	128.4
70°	127.1	121.8	112.2	113.1	114.3
72.5°	108.5	103.5	97.8	99.8	102.3
75°	92.8	88.7	84.1	88.2	91.1
77.5°	77.8	73.7	71.2	75.3	78.7
80°	62.5	59.6	58.8	63.4	66.3
82.5°	48.4	46.0	44.7	50.6	51.8
85°	33.5	31.0	30.6	35.6	34.8
87.5°	17.8	15.7	15.7	18.7	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)