

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: P257144

Luminaire Tested: **14GR-LD5-32-F125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P257144
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-LD5-32-F125-UNV-L940-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: 2848.3 lumens
Efficiency: N/A
Efficacy: 95.3 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

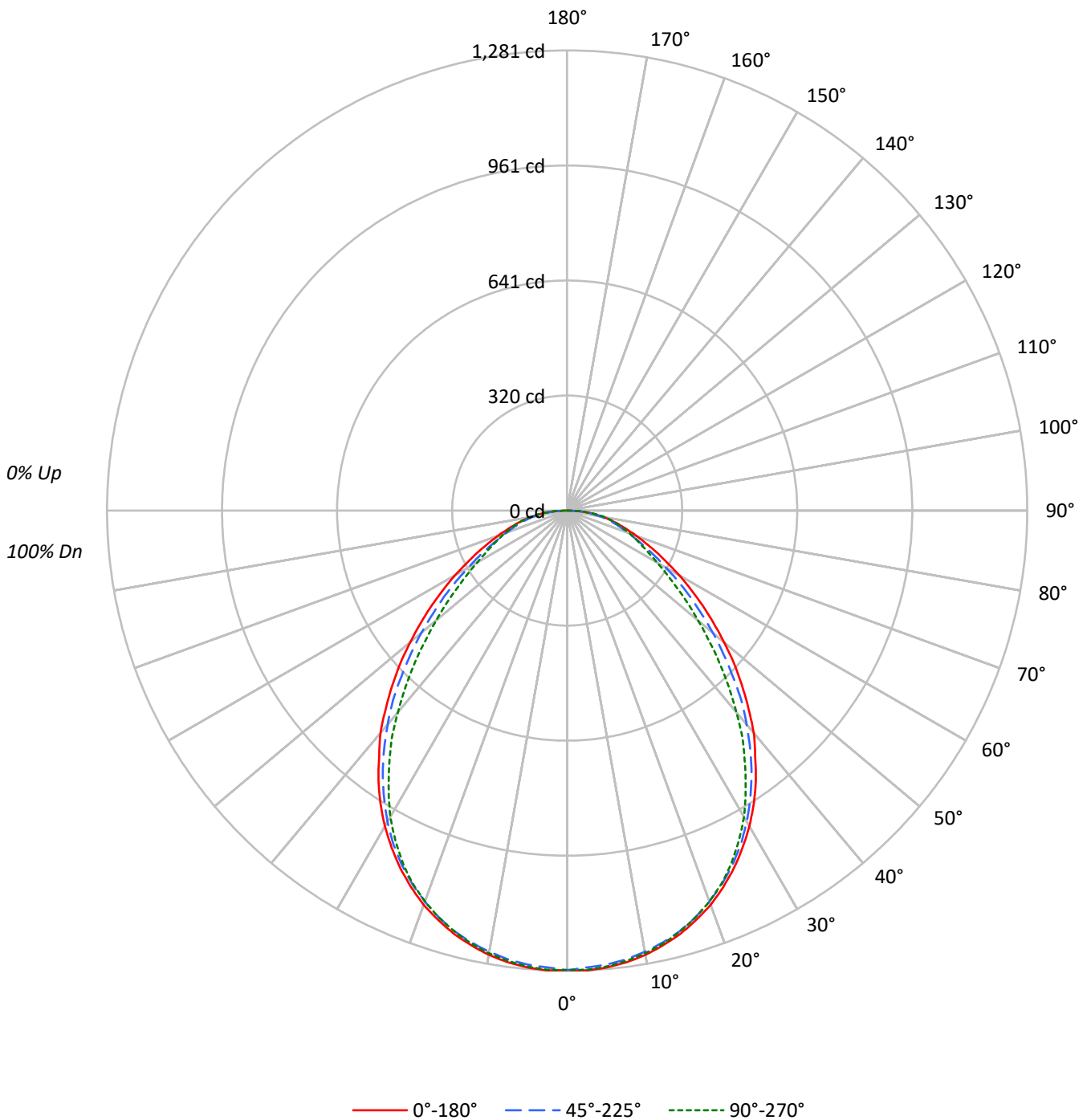
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4310	4310	4310
5°	4318	4291	4309
10°	4297	4268	4281
15°	4254	4228	4231
20°	4189	4153	4151
25°	4084	4047	4025
30°	3948	3891	3831
35°	3766	3681	3550
40°	3556	3419	3223
45°	3279	3108	2858
50°	2987	2778	2496
55°	2699	2457	2175
60°	2428	2138	1944
65°	2179	1908	1824
70°	2012	1775	1808
75°	1940	1756	1905
80°	1948	1832	2065
85°	2080	1902	2157



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	4.2
10°-20°	342.3	12.0
20°-30°	501.0	17.6
30°-40°	556.8	19.5
40°-50°	500.6	17.6
50°-60°	374.3	13.1
60°-70°	246.5	8.7
70°-80°	149.9	5.3
80°-90°	56.1	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°	964.2	33.9
0°-40°	1521.0	53.4
0°-60°	2395.9	84.1
0°-90°	2848.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2848.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1277	1274	1269	1275	1274	121
15°	1219	1217	1212	1216	1213	343
25°	1098	1096	1088	1086	1082	505
35°	916	911	895	876	863	571
45°	688	681	652	617	600	531
55°	459	449	418	384	370	412
65°	273	263	239	229	229	273
75°	149	142	135	142	146	158
85°	54	50	49	57	56	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1279.2	1279.2	1279.2	1279.2	1279.2
2.5°	1281.2	1278.6	1272.6	1279.9	1279.2
5°	1276.6	1273.9	1268.7	1275.3	1273.9
7.5°	1268.0	1264.6	1260.0	1266.6	1264.6
10°	1256.0	1252.7	1247.3	1254.7	1251.3
12.5°	1238.7	1236.7	1231.4	1236.7	1234.7
15°	1219.4	1216.7	1212.1	1216.1	1212.8
17.5°	1194.8	1192.1	1186.9	1192.1	1188.2
20°	1168.2	1164.9	1158.2	1162.2	1157.6
22.5°	1134.9	1131.7	1125.7	1127.6	1123.7
25°	1098.4	1096.4	1088.4	1086.4	1082.5
27.5°	1057.9	1054.5	1047.2	1043.3	1035.3
30°	1014.6	1011.3	1000.0	993.4	984.7
32.5°	967.4	962.1	948.8	937.5	924.8
35°	915.6	910.9	894.9	875.7	863.0
37.5°	859.7	857.1	837.1	813.1	803.2
40°	808.5	798.5	777.3	748.0	732.7
42.5°	747.3	740.7	718.1	685.5	666.2
45°	688.2	680.9	652.3	617.0	599.8
47.5°	630.3	622.4	589.8	555.2	535.3
50°	569.8	563.1	529.9	491.4	476.1
52.5°	513.3	504.6	470.1	435.5	422.2
55°	459.4	449.4	418.2	383.6	370.3
57.5°	408.2	396.3	366.4	336.4	327.8
60°	360.3	347.1	317.2	295.2	288.5
62.5°	313.8	303.8	277.3	260.7	256.6
65°	273.3	263.3	239.3	229.4	228.8
67.5°	236.1	226.1	207.4	204.8	206.1
70°	204.2	195.5	180.2	181.5	183.5
72.5°	174.2	166.2	157.0	160.2	164.3
75°	149.0	142.3	134.9	141.6	146.3
77.5°	125.0	118.3	114.4	121.0	126.3
80°	100.4	95.7	94.4	101.7	106.4
82.5°	77.8	73.8	71.8	81.1	83.1
85°	53.8	49.9	49.2	57.2	55.8
87.5°	28.6	25.3	25.3	29.9	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)