

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: P225902

Luminaire Tested: **14GR-LD5-32-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225902
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-F1-UNV-L950-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: 3013.9 lumens
Efficiency: N/A
Efficacy: 100.8 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

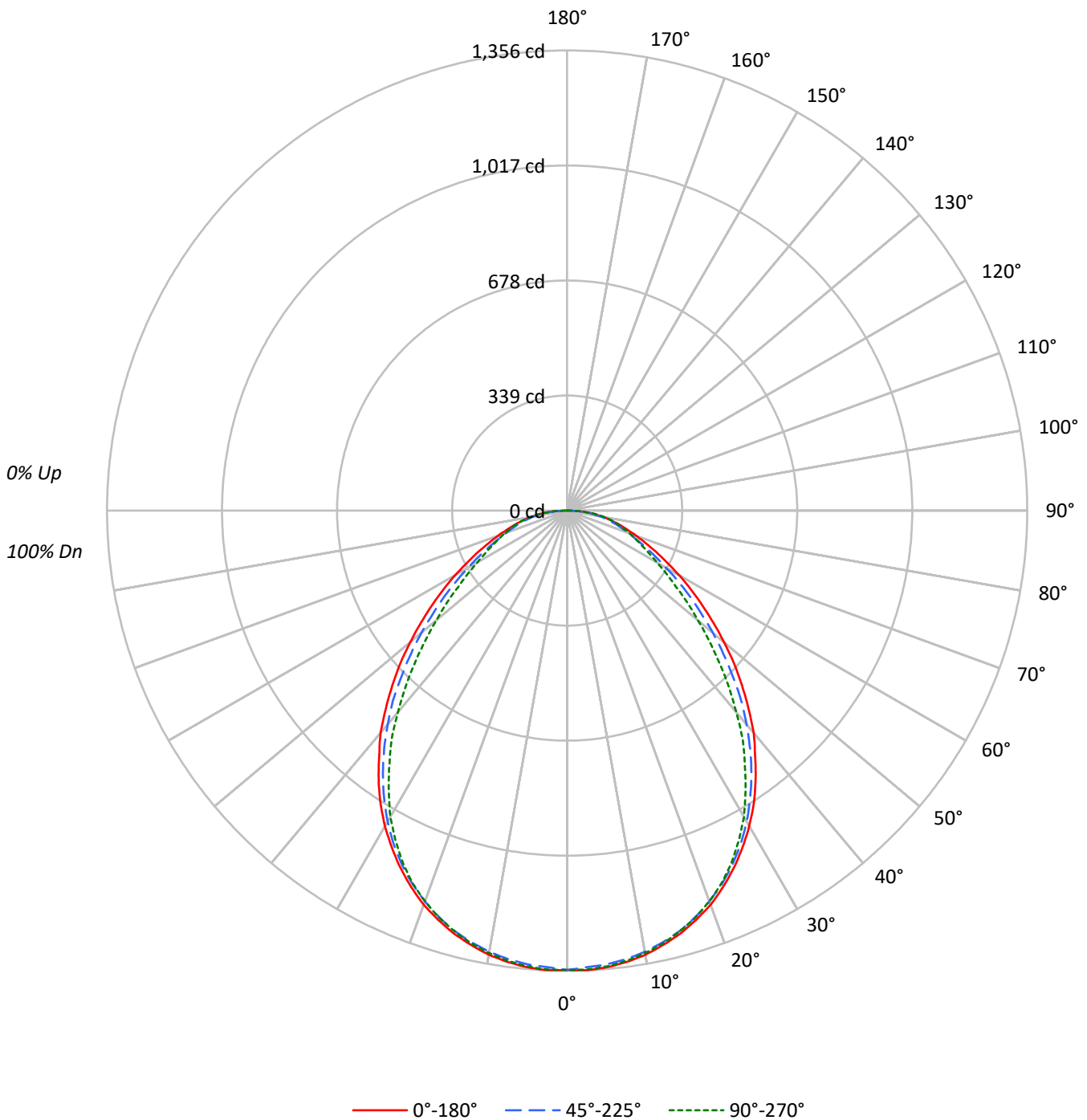
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	34					34			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4561	4561	4561
5°	4569	4541	4560
10°	4548	4516	4530
15°	4501	4474	4477
20°	4432	4395	4392
25°	4321	4282	4258
30°	4177	4117	4054
35°	3985	3895	3756
40°	3763	3618	3410
45°	3470	3289	3024
50°	3161	2939	2641
55°	2856	2600	2302
60°	2570	2262	2057
65°	2306	2020	1930
70°	2128	1878	1913
75°	2052	1859	2015
80°	2061	1939	2185
85°	2204	2014	2285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	4.2
10°-20°	362.2	12.0
20°-30°	530.1	17.6
30°-40°	589.2	19.5
40°-50°	529.7	17.6
50°-60°	396.1	13.1
60°-70°	260.8	8.7
70°-80°	158.6	5.3
80°-90°	59.3	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°	1020.2	33.8
0°-40°	1609.4	53.4
0°-60°	2535.2	84.1
0°-90°	3013.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3013.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1351	1348	1342	1349	1348	128
15°	1290	1288	1283	1287	1283	363
25°	1162	1160	1152	1150	1145	534
35°	969	964	947	927	913	605
45°	728	720	690	653	635	562
55°	486	476	442	406	392	436
65°	289	279	253	243	242	289
75°	158	151	143	150	155	168
85°	57	53	52	60	59	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1353.6	1353.6	1353.6	1353.6	1353.6
2.5°	1355.7	1352.9	1346.6	1354.4	1353.6
5°	1350.8	1348.0	1342.4	1349.4	1348.0
7.5°	1341.7	1338.2	1333.2	1340.2	1338.2
10°	1329.1	1325.5	1319.9	1327.6	1324.0
12.5°	1310.8	1308.6	1303.0	1308.6	1306.5
15°	1290.3	1287.5	1282.6	1286.8	1283.3
17.5°	1264.3	1261.4	1255.9	1261.4	1257.3
20°	1236.1	1232.6	1225.6	1229.8	1224.9
22.5°	1200.9	1197.5	1191.1	1193.2	1189.0
25°	1162.3	1160.2	1151.7	1149.6	1145.4
27.5°	1119.4	1115.8	1108.1	1103.9	1095.5
30°	1073.6	1070.1	1058.1	1051.1	1042.0
32.5°	1023.7	1018.0	1004.0	992.0	978.6
35°	968.8	963.9	946.9	926.6	913.2
37.5°	909.7	906.9	885.8	860.4	849.9
40°	855.5	844.9	822.5	791.5	775.3
42.5°	790.8	783.8	759.8	725.4	705.0
45°	728.2	720.4	690.2	652.9	634.6
47.5°	666.9	658.6	624.1	587.5	566.4
50°	603.0	595.9	560.7	520.0	503.8
52.5°	543.2	534.0	497.4	460.8	446.7
55°	486.1	475.6	442.5	406.0	391.8
57.5°	432.0	419.3	387.7	356.0	346.9
60°	381.3	367.3	335.6	312.4	305.3
62.5°	332.1	321.5	293.4	275.8	271.5
65°	289.2	278.6	253.3	242.7	242.1
67.5°	249.8	239.2	219.5	216.7	218.1
70°	216.0	206.8	190.6	192.1	194.2
72.5°	184.4	175.9	166.1	169.5	173.8
75°	157.6	150.6	142.8	149.9	154.8
77.5°	132.3	125.2	121.0	128.0	133.7
80°	106.2	101.3	99.9	107.7	112.6
82.5°	82.4	78.1	76.0	85.8	87.9
85°	57.0	52.8	52.1	60.5	59.1
87.5°	30.2	26.8	26.8	31.7	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)