

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: P225882

Luminaire Tested: **14GR-LD5-32-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225882  
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-L930-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: 2657.7 lumens  
Efficiency: N/A  
Efficacy: 88.9 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

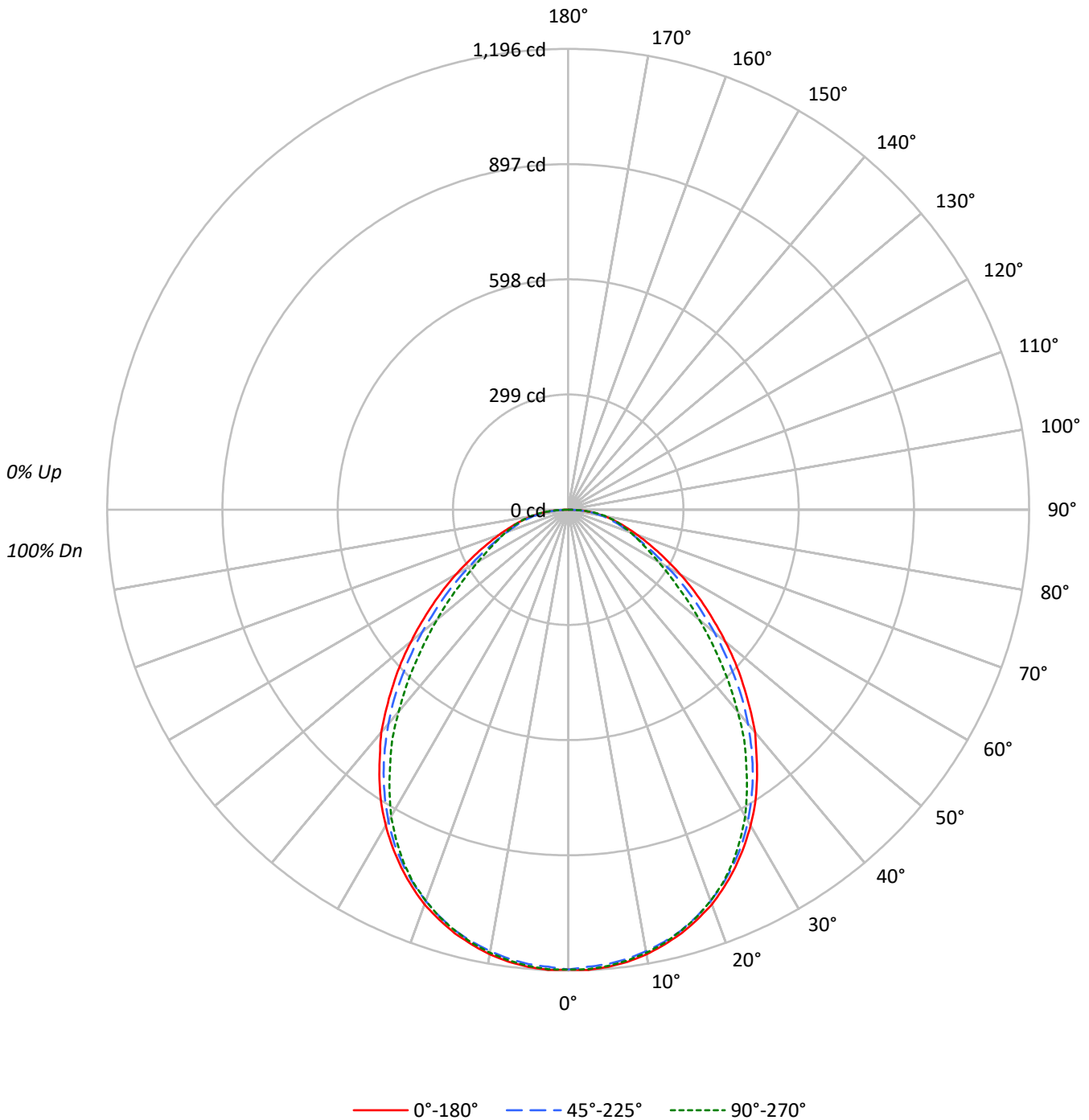
Input Watts (W): 29.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P225882

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L930-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P225882

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L930-CD1-U

**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°	4022	4022	4022
5°	4029	4004	4020
10°	4010	3982	3995
15°	3969	3945	3948
20°	3909	3875	3873
25°	3810	3776	3755
30°	3683	3631	3575
35°	3514	3435	3313
40°	3318	3190	3007
45°	3060	2900	2667
50°	2787	2592	2329
55°	2518	2293	2030
60°	2266	1994	1815
65°	2033	1781	1701
70°	1877	1657	1687
75°	1808	1639	1777
80°	1818	1710	1927
85°	1941	1775	2014



TEST NUMBER: P225882

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L930-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	4.2
10°-20°	319.4	12.0
20°-30°	467.5	17.6
30°-40°	519.6	19.5
40°-50°	467.1	17.6
50°-60°	349.3	13.1
60°-70°	230.0	8.7
70°-80°	139.8	5.3
80°-90°	52.3	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°	899.6	33.8
0°-40°	1419.2	53.4
0°-60°	2235.6	84.1
0°-90°	2657.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2657.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1191	1189	1184	1190	1189	113
15°	1138	1135	1131	1135	1132	321
25°	1025	1023	1016	1014	1010	471
35°	854	850	835	817	805	533
45°	642	635	609	576	560	495
55°	429	419	390	358	346	385
65°	255	246	223	214	213	255
75°	139	133	126	132	136	148
85°	50	47	46	53	52	53
90°	0	0	0	0	0	



TEST NUMBER: P225882

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1193.6	1193.6	1193.6	1193.6	1193.6
2.5°	1195.5	1193.0	1187.4	1194.3	1193.6
5°	1191.1	1188.6	1183.7	1189.9	1188.6
7.5°	1183.1	1180.0	1175.6	1181.8	1180.0
10°	1172.0	1168.8	1163.8	1170.7	1167.6
12.5°	1155.8	1153.9	1149.0	1153.9	1152.0
15°	1137.8	1135.4	1131.0	1134.7	1131.6
17.5°	1114.9	1112.4	1107.4	1112.4	1108.6
20°	1090.0	1087.0	1080.7	1084.5	1080.1
22.5°	1059.0	1055.9	1050.4	1052.2	1048.5
25°	1024.9	1023.1	1015.6	1013.8	1010.0
27.5°	987.0	984.0	977.2	973.4	966.0
30°	946.7	943.6	933.1	926.9	918.8
32.5°	902.7	897.7	885.3	874.7	863.0
35°	854.3	849.9	835.1	817.1	805.3
37.5°	802.2	799.7	781.1	758.7	749.4
40°	754.4	745.1	725.3	697.9	683.7
42.5°	697.3	691.1	670.1	639.6	621.7
45°	642.1	635.3	608.6	575.7	559.6
47.5°	588.1	580.7	550.3	518.0	499.4
50°	531.7	525.5	494.4	458.5	444.2
52.5°	478.9	470.9	438.7	406.4	393.9
55°	428.7	419.4	390.3	358.0	345.5
57.5°	380.9	369.8	341.9	313.9	305.9
60°	336.2	323.9	295.9	275.5	269.3
62.5°	292.8	283.5	258.7	243.2	239.5
65°	255.0	245.7	223.4	214.1	213.4
67.5°	220.2	210.9	193.6	191.1	192.3
70°	190.5	182.4	168.2	169.4	171.2
72.5°	162.5	155.1	146.4	149.5	153.2
75°	138.9	132.8	125.9	132.1	136.5
77.5°	116.6	110.4	106.7	112.9	117.9
80°	93.7	89.3	88.1	95.0	99.3
82.5°	72.6	68.9	67.0	75.7	77.5
85°	50.2	46.6	45.9	53.4	52.1
87.5°	26.6	23.6	23.6	27.9	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)