

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: P225901

Luminaire Tested: **14GR-LD5-28-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225901
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-LD5-28-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: 2594.4 lumens
Efficiency: N/A
Efficacy: 104.2 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

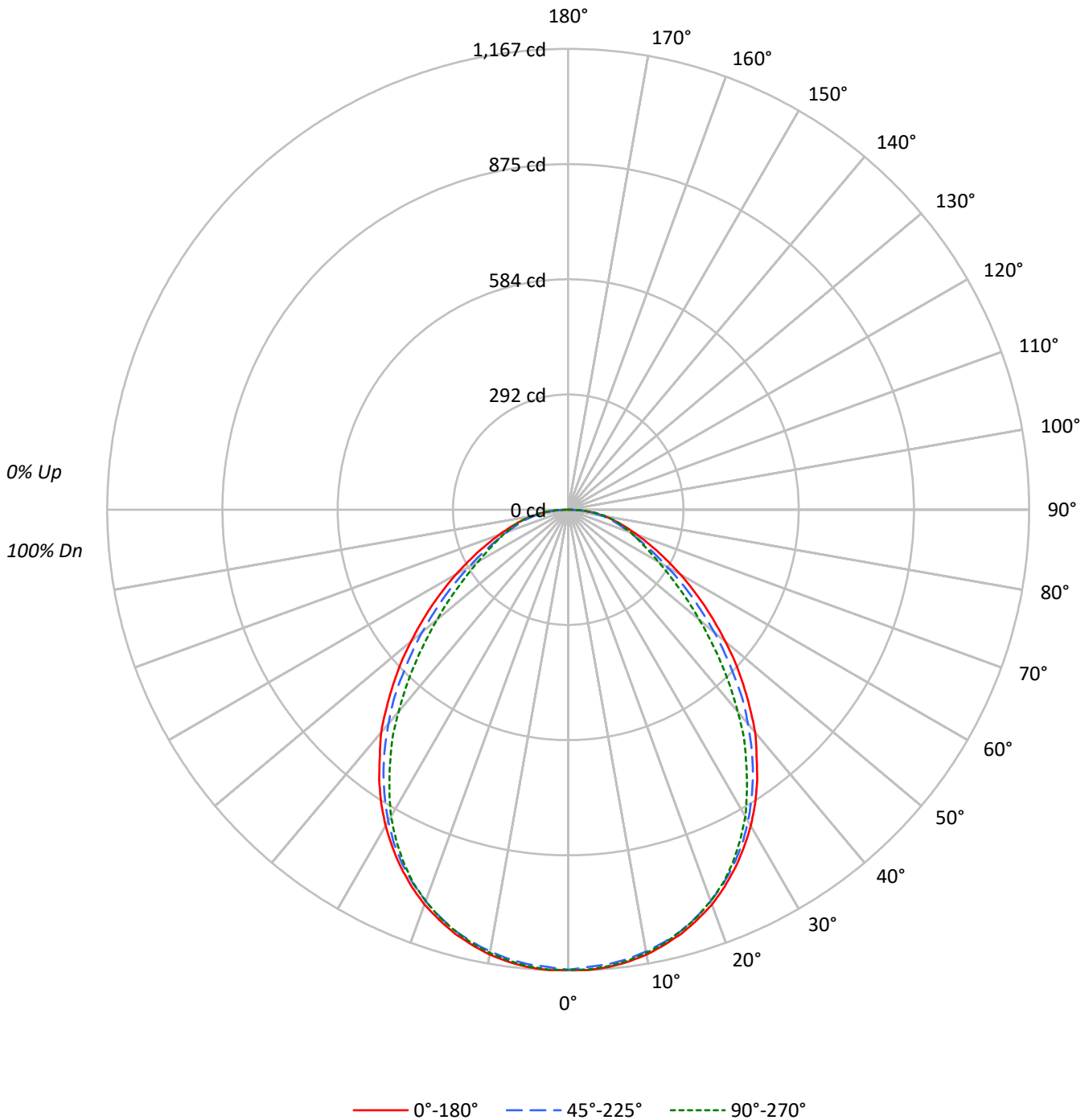
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3927	3927	3927
5°	3933	3908	3925
10°	3915	3887	3900
15°	3875	3852	3853
20°	3816	3783	3781
25°	3720	3686	3666
30°	3596	3544	3490
35°	3430	3353	3234
40°	3240	3114	2936
45°	2987	2831	2603
50°	2721	2530	2273
55°	2459	2238	1982
60°	2212	1947	1771
65°	1985	1738	1661
70°	1831	1618	1647
75°	1767	1600	1734
80°	1776	1669	1880
85°	1894	1732	1968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	4.2
10°-20°	311.8	12.0
20°-30°	456.3	17.6
30°-40°	507.2	19.6
40°-50°	456.0	17.6
50°-60°	340.9	13.1
60°-70°	224.5	8.7
70°-80°	136.5	5.3
80°-90°	51.1	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°	878.2	33.9
0°-40°	1385.4	53.4
0°-60°	2182.3	84.1
0°-90°	2594.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2594.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1163	1160	1156	1162	1160	110
15°	1111	1108	1104	1108	1105	313
25°	1000	999	991	990	986	460
35°	834	830	815	798	786	520
45°	627	620	594	562	546	484
55°	418	409	381	349	337	376
65°	249	240	218	209	208	249
75°	136	130	123	129	133	144
85°	49	45	45	52	51	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1165.3	1165.3	1165.3	1165.3	1165.3
2.5°	1167.1	1164.6	1159.2	1165.8	1165.3
5°	1162.8	1160.3	1155.5	1161.6	1160.3
7.5°	1155.0	1151.9	1147.7	1153.7	1151.9
10°	1144.1	1141.0	1136.1	1142.8	1139.8
12.5°	1128.3	1126.5	1121.7	1126.5	1124.7
15°	1110.7	1108.3	1104.1	1107.7	1104.6
17.5°	1088.3	1085.9	1081.1	1085.9	1082.3
20°	1064.1	1061.1	1055.0	1058.6	1054.4
22.5°	1033.9	1030.8	1025.3	1027.1	1023.5
25°	1000.5	998.7	991.4	989.6	986.0
27.5°	963.6	960.5	953.9	950.2	942.9
30°	924.2	921.2	910.9	904.8	896.9
32.5°	881.2	876.3	864.2	853.9	842.4
35°	833.9	829.7	815.2	797.6	786.1
37.5°	783.1	780.7	762.5	740.6	731.6
40°	736.5	727.4	708.0	681.3	667.4
42.5°	680.8	674.7	654.1	624.4	606.9
45°	626.8	620.2	594.1	562.0	546.3
47.5°	574.1	566.8	537.2	505.7	487.5
50°	519.1	513.0	482.7	447.5	433.6
52.5°	467.6	459.6	428.2	396.7	384.6
55°	418.5	409.4	380.9	349.4	337.3
57.5°	371.8	361.0	333.7	306.5	298.6
60°	328.2	316.1	288.9	268.9	262.8
62.5°	285.8	276.7	252.5	237.4	233.8
65°	248.9	239.8	218.0	208.9	208.3
67.5°	215.0	205.9	188.9	186.6	187.7
70°	185.9	178.1	164.2	165.3	167.2
72.5°	158.7	151.4	143.0	146.0	149.6
75°	135.7	129.6	122.9	129.0	133.2
77.5°	113.8	107.8	104.2	110.2	115.0
80°	91.5	87.2	86.0	92.6	96.9
82.5°	70.9	67.2	65.4	73.9	75.7
85°	49.0	45.4	44.8	52.1	50.9
87.5°	26.0	23.0	23.0	27.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)