

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: P225872

Luminaire Tested: **14GR-LD5-20-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A125-UNV-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1900.1 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

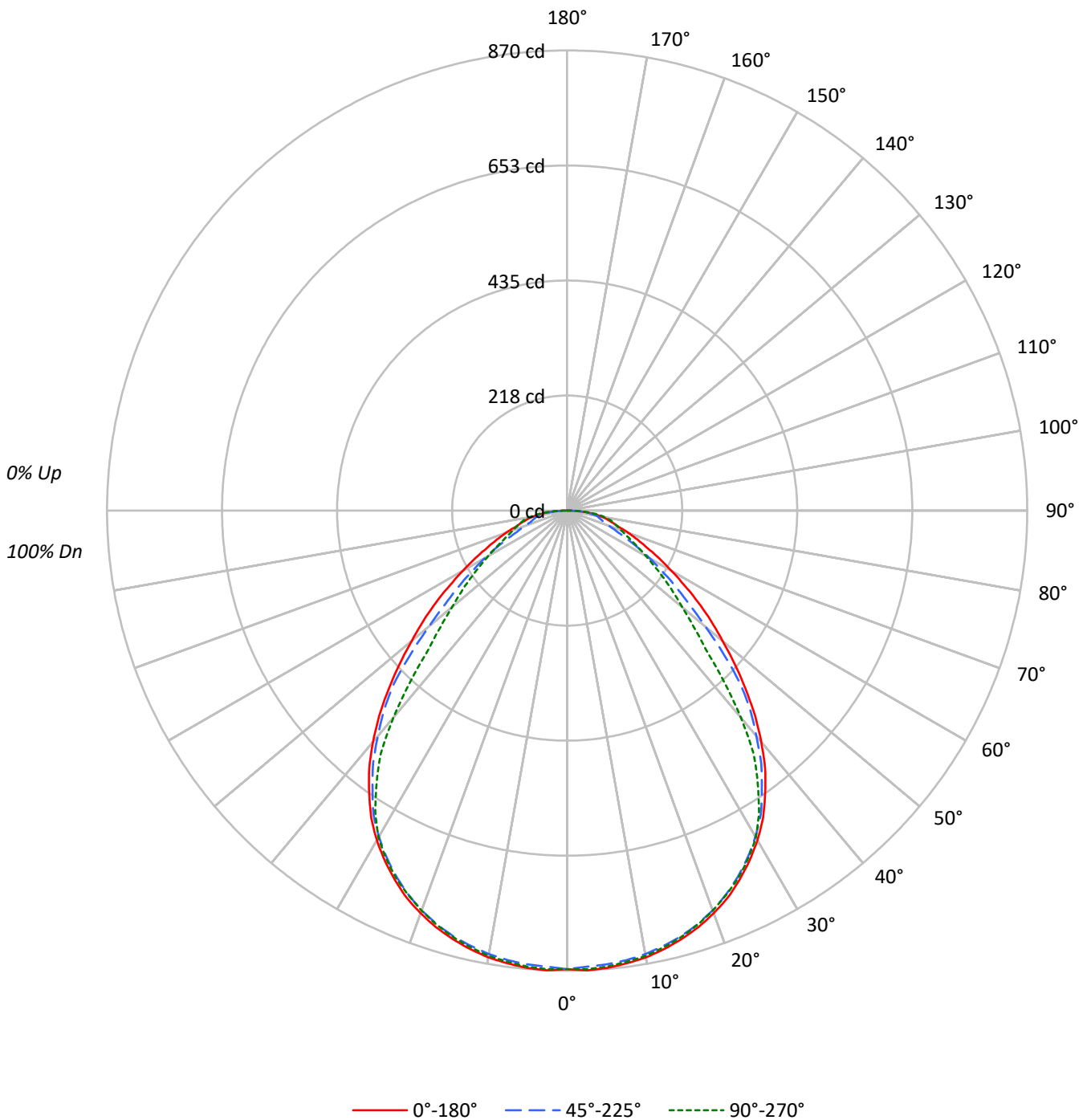
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225872

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225872

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L950-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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2921	2921	2921
5°	2936	2913	2927
10°	2935	2912	2925
15°	2925	2906	2911
20°	2905	2883	2886
25°	2867	2840	2848
30°	2801	2770	2777
35°	2685	2640	2584
40°	2511	2449	2247
45°	2273	2208	1762
50°	2010	1786	1486
55°	1779	1469	1310
60°	1536	1215	1162
65°	1335	966	1068
70°	1208	830	1069
75°	1159	866	1194
80°	1290	1104	1395
85°	1365	1175	1670



TEST NUMBER: P225872

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	4.3
10°-20°	235.7	12.4
20°-30°	352.7	18.6
30°-40°	399.3	21.0
40°-50°	340.1	17.9
50°-60°	230.3	12.1
60°-70°	137.5	7.2
70°-80°	85.9	4.5
80°-90°	36.3	1.9
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°	670.7	35.3
0°-40°	1070.0	56.3
0°-60°	1640.4	86.3
0°-90°	1900.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1900.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	868	866	861	867	865	83
15°	838	835	833	838	834	237
25°	771	769	764	767	766	355
35°	653	649	642	635	628	407
45°	477	478	463	395	370	368
55°	303	286	250	223	223	271
65°	168	140	121	130	134	169
75°	89	80	66	87	92	96
85°	35	33	30	38	43	38
90°	0	0	0	0	0	



TEST NUMBER: P225872

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.0	867.0	867.0	867.0	867.0
2.5°	870.1	868.0	863.1	868.9	868.0
5°	868.0	865.8	861.3	866.6	865.3
7.5°	863.5	861.3	857.4	862.7	860.5
10°	857.8	855.1	851.2	856.9	854.8
12.5°	849.0	846.4	842.8	848.6	845.5
15°	838.4	835.3	833.1	838.4	834.5
17.5°	825.6	823.0	819.9	825.2	820.8
20°	810.2	808.0	804.1	807.1	804.9
22.5°	792.6	789.5	785.5	789.1	786.0
25°	771.0	768.8	763.9	767.4	766.1
27.5°	746.3	744.9	739.2	743.7	741.5
30°	719.8	716.4	711.9	713.3	713.6
32.5°	689.4	685.0	681.5	678.4	675.3
35°	652.8	648.8	641.8	635.2	628.2
37.5°	614.9	609.6	602.6	588.0	579.2
40°	570.8	568.2	556.7	536.4	510.9
42.5°	525.9	523.2	513.1	467.7	439.9
45°	476.9	478.3	463.3	394.9	369.8
47.5°	430.2	433.8	401.1	337.2	324.0
50°	383.5	387.5	340.7	291.4	283.5
52.5°	342.5	339.4	290.5	255.7	252.2
55°	302.8	286.1	250.0	223.0	223.0
57.5°	262.3	238.5	212.5	195.3	195.3
60°	227.9	198.4	180.3	168.8	172.4
62.5°	196.2	164.9	149.4	147.2	151.6
65°	167.5	139.8	121.2	129.6	134.0
67.5°	144.1	119.5	99.6	117.3	119.9
70°	122.6	104.0	84.2	108.0	108.5
72.5°	102.7	91.7	72.3	97.8	99.6
75°	89.0	79.8	66.5	87.3	91.7
77.5°	78.0	68.3	61.2	75.3	83.7
80°	66.5	56.0	56.9	63.5	71.9
82.5°	51.1	43.2	45.0	52.1	58.6
85°	35.3	32.6	30.4	38.3	43.2
87.5°	18.9	17.7	15.5	21.6	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)