

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: P231797

Luminaire Tested: **24GR-LD5-100-A-UNV-L935-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-100-A-UNV-L935-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8625.8 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

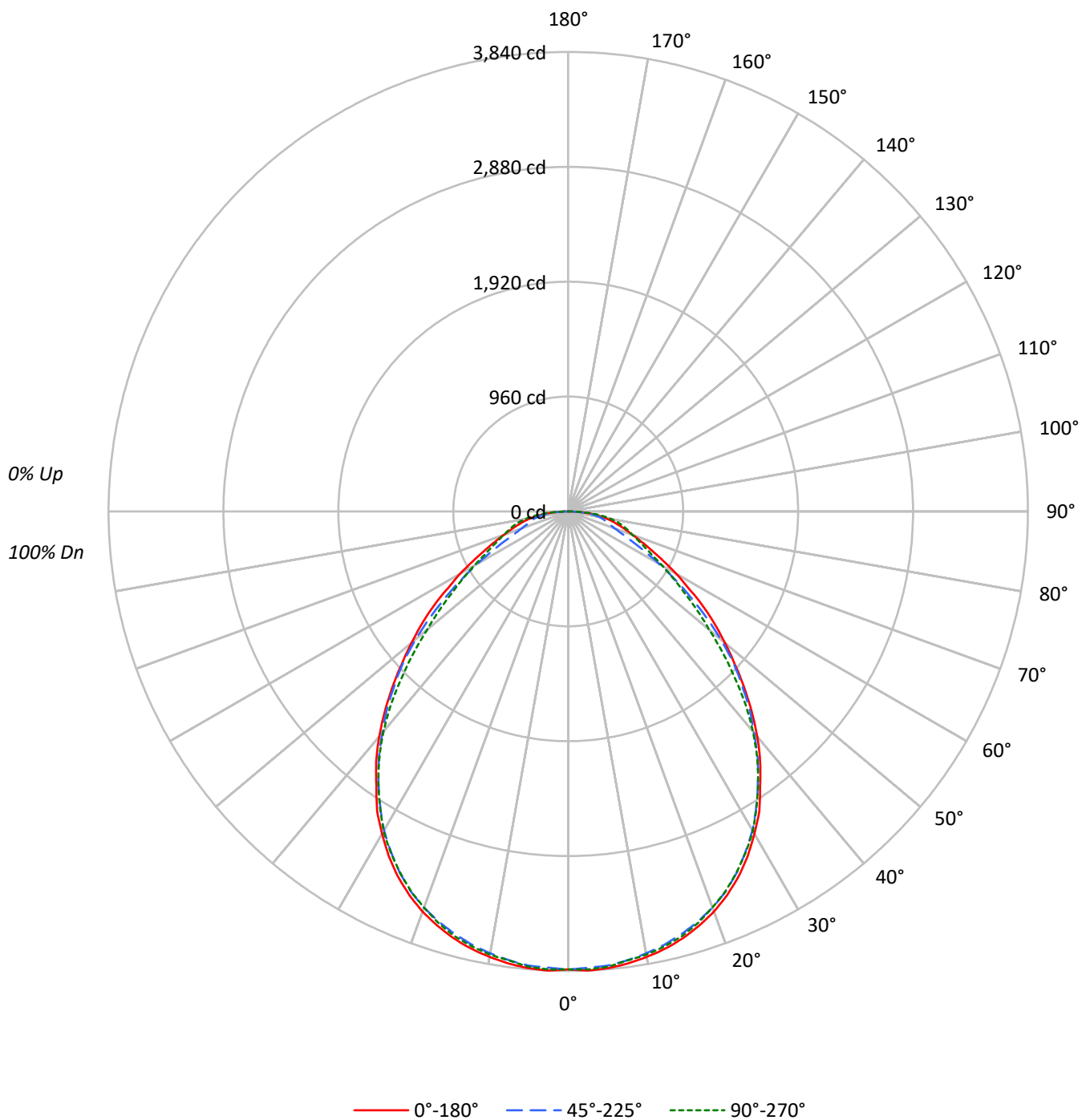
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	93	90	91	89	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63		
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43		
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39		
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35		
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32		
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5862	5862	5862
5°	5890	5858	5872
10°	5880	5832	5849
15°	5857	5798	5823
20°	5801	5743	5741
25°	5689	5628	5623
30°	5501	5444	5456
35°	5225	5165	5173
40°	4913	4828	4799
45°	4503	4442	4266
50°	4071	3960	3661
55°	3655	3327	3156
60°	3200	2678	2776
65°	2792	2106	2555
70°	2554	1838	2554
75°	2555	1956	2815
80°	2774	2304	3209
85°	3044	2599	3443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.4	4.2
10°-20°	1034.3	12.0
20°-30°	1533.6	17.8
30°-40°	1730.1	20.1
40°-50°	1567.0	18.2
50°-60°	1130.5	13.1
60°-70°	675.0	7.8
70°-80°	417.2	4.8
80°-90°	175.7	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°	2930.3	34.0
0°-40°	4660.4	54.0
0°-60°	7357.9	85.3
0°-90°	8625.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8625.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3827	3827	3827	3827	3827	
5°	3831	3826	3810	3806	3819	364
15°	3694	3671	3657	3658	3673	1041
25°	3366	3348	3330	3318	3327	1546
35°	2794	2790	2762	2764	2766	1748
45°	2079	2066	2051	2000	1970	1602
55°	1369	1326	1246	1185	1182	1222
65°	770	678	581	660	705	775
75°	432	374	330	412	476	461
85°	173	152	148	193	196	181
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3827.1	3827.1	3827.1	3827.1	3827.1
2.5°	3840.5	3829.8	3816.5	3824.5	3831.2
5°	3831.2	3825.8	3809.9	3805.9	3819.1
7.5°	3811.1	3797.9	3783.2	3789.9	3784.5
10°	3780.5	3768.6	3749.9	3751.2	3760.6
12.5°	3743.2	3728.5	3708.6	3713.9	3721.9
15°	3693.9	3671.2	3656.6	3657.9	3672.6
17.5°	3631.3	3613.9	3595.3	3599.3	3606.0
20°	3559.3	3550.0	3523.3	3515.3	3522.0
22.5°	3468.7	3451.3	3436.7	3432.7	3434.1
25°	3366.1	3347.5	3330.1	3318.1	3327.4
27.5°	3246.2	3230.2	3207.6	3203.5	3211.6
30°	3110.2	3098.2	3078.3	3072.9	3084.9
32.5°	2971.7	2951.6	2923.7	2923.7	2926.4
35°	2794.5	2790.4	2762.4	2763.8	2766.4
37.5°	2634.5	2615.9	2599.9	2583.8	2591.9
40°	2457.3	2435.9	2414.6	2404.0	2400.0
42.5°	2266.7	2250.7	2241.4	2202.8	2193.4
45°	2078.8	2065.5	2050.9	2000.2	1969.5
47.5°	1886.9	1884.3	1872.3	1783.0	1752.4
50°	1708.3	1704.3	1661.8	1567.1	1536.5
52.5°	1539.1	1512.5	1456.5	1363.2	1357.9
55°	1368.6	1325.9	1245.9	1184.6	1182.0
57.5°	1188.6	1138.1	1056.7	1023.4	1040.7
60°	1044.7	967.5	874.1	878.1	906.2
62.5°	895.5	808.9	716.9	756.9	790.2
65°	770.3	678.3	581.0	659.6	704.9
67.5°	661.0	575.7	482.4	587.7	631.6
70°	570.4	501.1	410.5	521.0	570.4
72.5°	498.4	434.4	363.8	467.8	525.0
75°	431.7	374.4	330.5	411.7	475.7
77.5°	374.4	318.5	298.5	363.8	426.4
80°	314.5	263.8	261.2	317.1	363.8
82.5°	245.2	210.5	210.5	265.2	293.2
85°	173.2	151.9	147.9	193.2	195.9
87.5°	89.2	85.3	77.3	101.2	101.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)