

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: P231799

Luminaire Tested: **24GR-LD5-100-A-UNV-L950-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231799
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-L950-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10157.4 lumens
Efficiency: N/A
Efficacy: 141.7 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

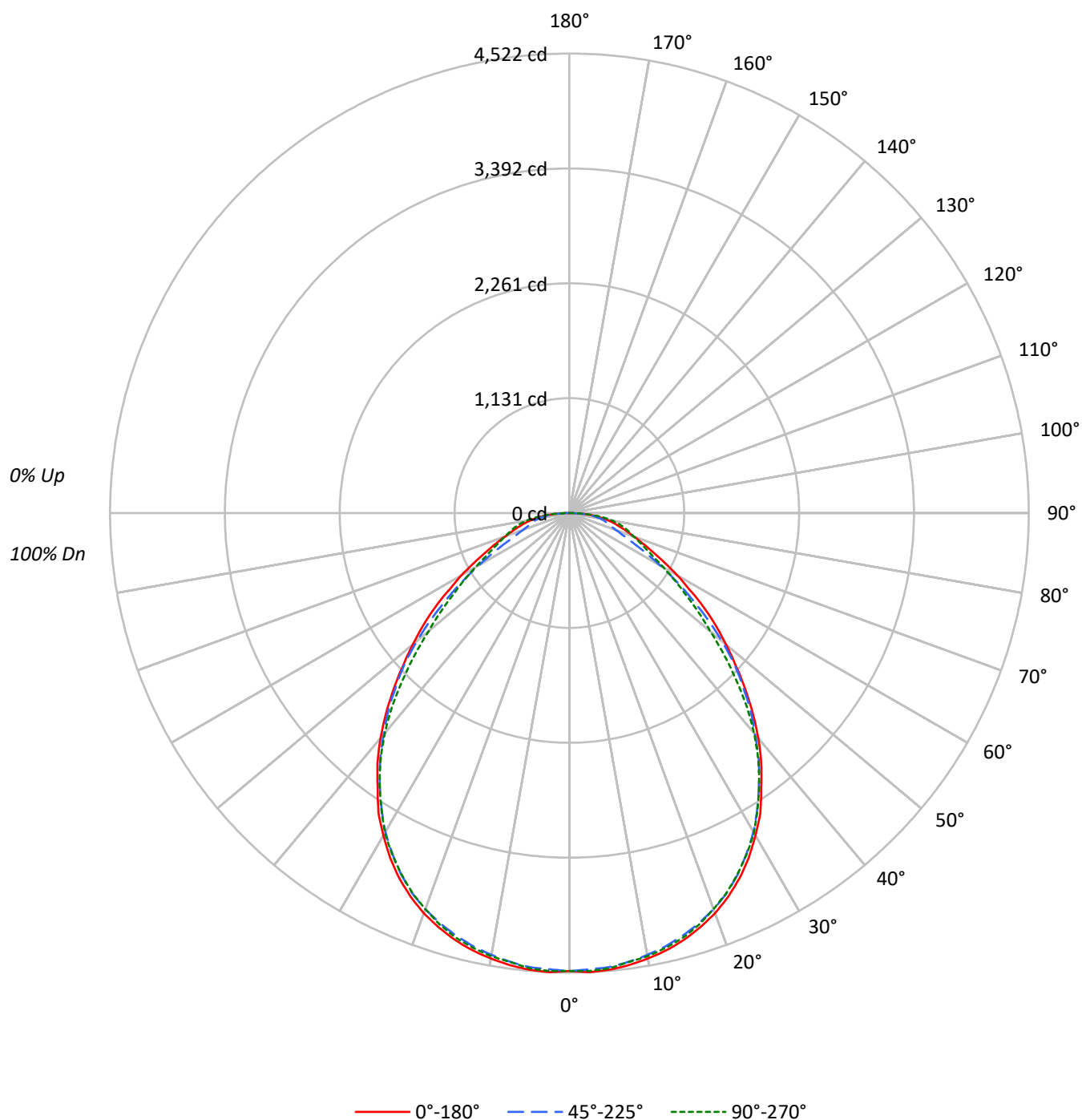
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6903	6903	6903
5°	6936	6898	6914
10°	6924	6868	6887
15°	6897	6828	6857
20°	6831	6763	6760
25°	6699	6627	6622
30°	6477	6411	6425
35°	6153	6082	6091
40°	5785	5685	5650
45°	5302	5231	5023
50°	4793	4663	4311
55°	4303	3918	3717
60°	3768	3153	3269
65°	3287	2479	3008
70°	3008	2164	3008
75°	3009	2303	3315
80°	3267	2713	3779
85°	3585	3061	4054



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.8	4.2
10°-20°	1217.9	12.0
20°-30°	1805.9	17.8
30°-40°	2037.3	20.1
40°-50°	1845.2	18.2
50°-60°	1331.2	13.1
60°-70°	794.8	7.8
70°-80°	491.3	4.8
80°-90°	207.0	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°	3450.6	34.0
0°-40°	5487.9	54.0
0°-60°	8664.4	85.3
0°-90°	10157.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10157.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4507	4507	4507	4507	4507	
5°	4511	4505	4486	4482	4497	429
15°	4350	4323	4306	4308	4325	1226
25°	3964	3942	3922	3907	3918	1821
35°	3291	3286	3253	3254	3258	2059
45°	2448	2432	2415	2355	2319	1886
55°	1612	1561	1467	1395	1392	1439
65°	907	799	684	777	830	912
75°	508	441	389	485	560	543
85°	204	179	174	228	231	213
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4506.7	4506.7	4506.7	4506.7	4506.7
2.5°	4522.4	4509.9	4494.2	4503.6	4511.4
5°	4511.4	4505.1	4486.3	4481.7	4497.3
7.5°	4487.9	4472.2	4454.9	4462.8	4456.5
10°	4451.8	4437.7	4415.7	4417.3	4428.2
12.5°	4407.9	4390.6	4367.1	4373.4	4382.7
15°	4349.8	4323.1	4305.8	4307.5	4324.7
17.5°	4276.1	4255.6	4233.7	4238.4	4246.2
20°	4191.3	4180.4	4149.0	4139.5	4147.4
22.5°	4084.6	4064.2	4047.0	4042.2	4043.9
25°	3963.8	3941.8	3921.5	3907.3	3918.3
27.5°	3822.5	3803.7	3777.0	3772.3	3781.8
30°	3662.5	3648.4	3624.8	3618.5	3632.7
32.5°	3499.3	3475.7	3442.8	3442.8	3446.0
35°	3290.6	3285.9	3253.0	3254.5	3257.6
37.5°	3102.3	3080.4	3061.5	3042.7	3052.0
40°	2893.6	2868.5	2843.4	2830.8	2826.1
42.5°	2669.2	2650.4	2639.4	2593.9	2582.9
45°	2447.9	2432.2	2415.0	2355.4	2319.2
47.5°	2221.9	2218.9	2204.7	2099.6	2063.5
50°	2011.7	2007.0	1956.8	1845.4	1809.3
52.5°	1812.4	1781.1	1715.2	1605.3	1599.1
55°	1611.5	1561.4	1467.2	1395.0	1391.8
57.5°	1399.8	1340.1	1244.3	1205.1	1225.5
60°	1230.2	1139.2	1029.4	1034.1	1067.1
62.5°	1054.5	952.5	844.2	891.3	930.6
65°	907.0	798.7	684.1	776.8	830.1
67.5°	778.3	677.9	568.0	692.1	743.8
70°	671.6	590.0	483.3	613.5	671.6
72.5°	586.9	511.6	428.4	550.8	618.3
75°	508.4	441.0	389.1	484.8	560.2
77.5°	441.0	375.0	351.5	428.4	502.1
80°	370.4	310.7	307.6	373.5	428.4
82.5°	288.7	248.0	248.0	312.3	345.3
85°	204.0	178.9	174.2	227.5	230.7
87.5°	105.1	100.5	91.0	119.3	119.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)