

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: P234116

Luminaire Tested: **22GR-LD5-85-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-85-A-UNV-L950-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8536.5 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

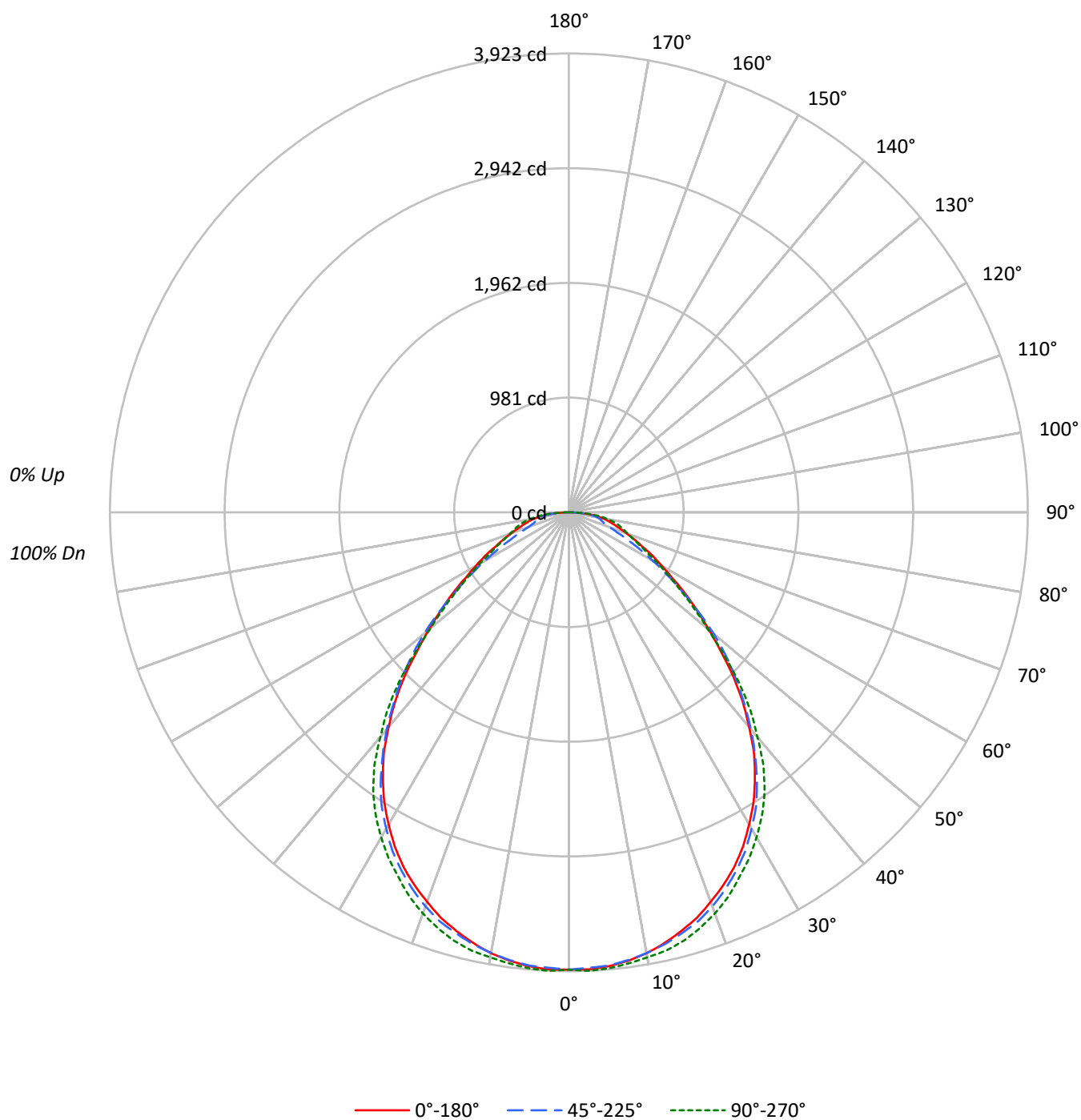
Input Watts (W): 81.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64		
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56		
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49		
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44		
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39		
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36		
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32		
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12520	12520	12520
5°	12523	12504	12580
10°	12448	12442	12565
15°	12290	12355	12573
20°	12078	12220	12437
25°	11821	11954	12172
30°	11394	11548	11864
35°	10834	10958	11401
40°	10016	10123	10481
45°	8997	9159	9303
50°	7779	8056	7700
55°	6788	6610	6522
60°	5878	5293	5649
65°	5254	4155	5073
70°	4873	3441	5004
75°	4866	3638	5554
80°	5385	4579	6265
85°	5622	4960	7077



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.0	4.3
10°-20°	1053.7	12.3
20°-30°	1558.4	18.3
30°-40°	1758.5	20.6
40°-50°	1550.2	18.2
50°-60°	1063.4	12.5
60°-70°	627.5	7.4
70°-80°	391.6	4.6
80°-90°	163.3	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°	2982.0	34.9
0°-40°	4740.5	55.5
0°-60°	7354.1	86.1
0°-90°	8536.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8536.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3910	3910	3910	3910	3910	
5°	3896	3888	3890	3903	3913	370
15°	3707	3711	3727	3772	3792	1045
25°	3345	3357	3383	3427	3445	1536
35°	2771	2795	2803	2870	2916	1727
45°	1986	1996	2022	2034	2054	1526
55°	1216	1186	1184	1144	1168	1091
65°	693	610	548	634	670	698
75°	393	354	294	411	449	422
85°	153	143	135	177	193	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3909.5	3909.5	3909.5	3909.5	3909.5
2.5°	3911.5	3901.4	3897.5	3913.4	3923.3
5°	3895.5	3887.6	3889.5	3903.4	3913.4
7.5°	3867.7	3861.8	3861.8	3881.6	3891.5
10°	3828.0	3826.0	3826.0	3849.8	3863.8
12.5°	3772.3	3774.3	3782.3	3814.1	3837.9
15°	3706.8	3710.8	3726.6	3772.3	3792.2
17.5°	3635.3	3635.3	3667.0	3702.8	3726.6
20°	3543.9	3549.9	3585.6	3625.3	3649.2
22.5°	3450.5	3460.5	3490.3	3536.0	3557.8
25°	3345.3	3357.2	3383.0	3426.7	3444.6
27.5°	3222.1	3238.0	3265.8	3297.6	3335.3
30°	3081.1	3104.9	3122.8	3166.4	3208.2
32.5°	2938.0	2959.9	2979.7	3025.4	3073.1
35°	2771.1	2795.0	2803.0	2870.5	2916.2
37.5°	2600.3	2610.2	2614.2	2681.8	2731.5
40°	2395.8	2415.6	2421.5	2475.2	2507.0
42.5°	2199.0	2207.0	2218.9	2258.6	2296.4
45°	1986.5	1996.4	2022.3	2034.2	2054.1
47.5°	1764.0	1793.8	1823.6	1785.9	1787.9
50°	1561.4	1585.2	1617.0	1545.5	1545.5
52.5°	1380.7	1392.6	1394.5	1334.9	1346.8
55°	1215.8	1185.9	1183.9	1144.2	1168.1
57.5°	1050.9	1011.1	997.2	985.3	1013.1
60°	917.7	846.2	826.4	844.3	882.0
62.5°	808.5	717.1	679.4	725.1	758.8
65°	693.3	609.9	548.3	633.7	669.5
67.5°	603.9	524.4	445.0	566.1	592.0
70°	520.4	458.9	367.5	514.5	534.4
72.5°	452.9	405.2	317.9	464.8	488.7
75°	393.3	353.6	294.0	411.2	448.9
77.5°	345.6	301.9	274.1	355.6	401.3
80°	292.0	248.3	248.3	297.9	339.7
82.5°	230.4	194.6	200.7	242.3	272.2
85°	153.0	143.1	135.0	176.8	192.6
87.5°	77.4	79.4	71.5	91.4	93.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)