

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: P219197

Luminaire Tested: **24GR-LD5-85-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219197
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-LD5-85-A125-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7943.0 lumens
Efficiency: N/A
Efficacy: 112.9 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

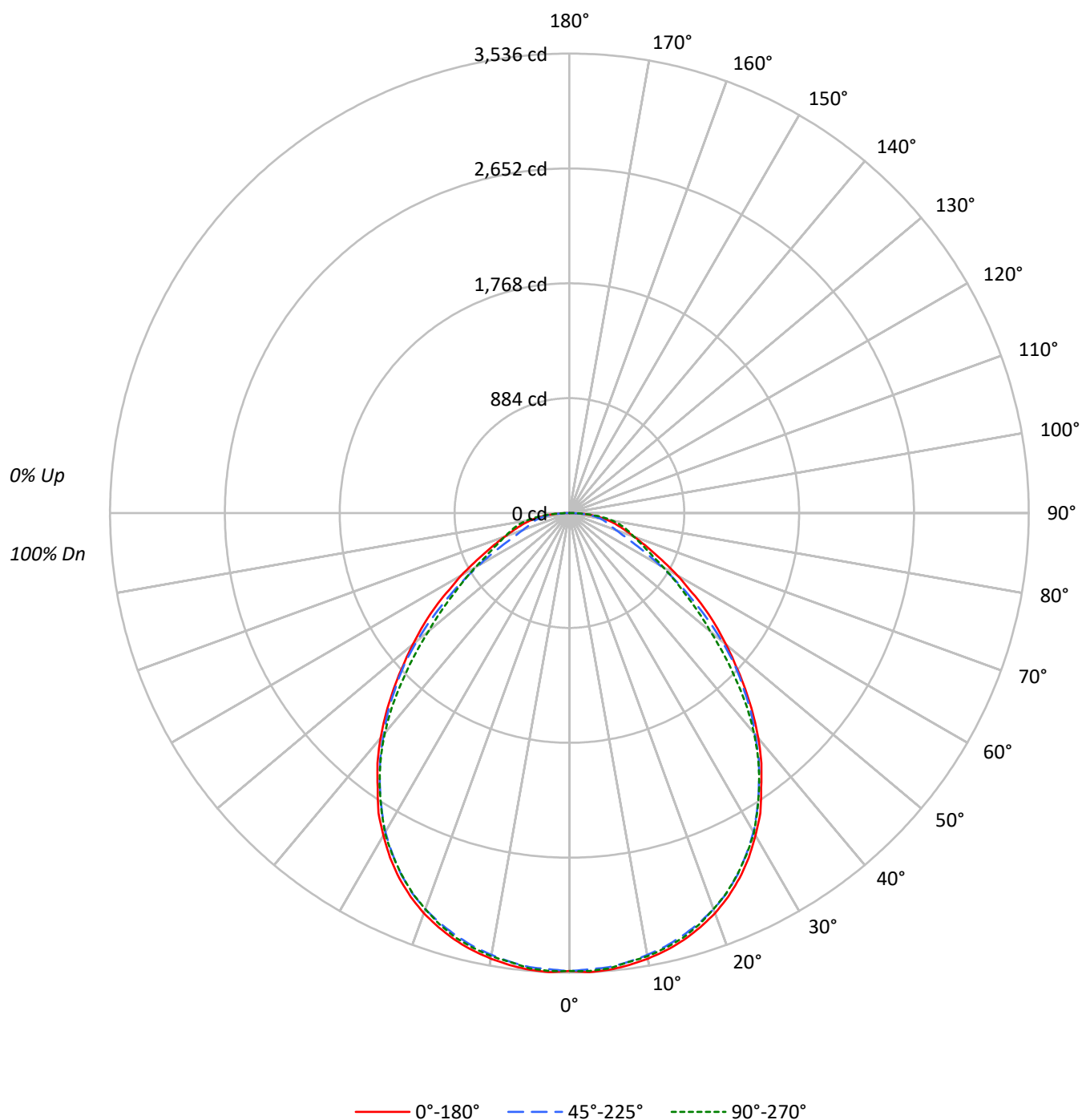
Input Watts (W): 70.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	93	90		91	89	88
2	101	93	87	82	98	91	86	81		88	83	79		85	81	77		82	78	75
3	93	83	75	69	90	81	74	69		79	73	68		76	71	67		73	69	65
4	86	74	66	60	83	73	65	60		71	64	59		68	63	58		66	61	57
5	79	67	59	53	77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	53	46	72	60	52	46		58	51	46		57	50	45		55	49	45
7	68	56	47	42	67	55	47	41		53	46	41		52	46	41		51	45	41
8	64	51	43	37	62	50	43	37		49	42	37		48	41	37		47	41	37
9	60	47	39	34	58	46	39	34		45	38	34		44	38	33		43	38	33
10	56	44	36	31	55	43	36	31		42	35	31		41	35	31		40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5398	5398	5398
5°	5424	5394	5407
10°	5414	5370	5386
15°	5394	5339	5362
20°	5342	5288	5286
25°	5238	5182	5178
30°	5065	5013	5024
35°	4811	4756	4763
40°	4524	4446	4419
45°	4146	4091	3928
50°	3748	3646	3371
55°	3365	3064	2907
60°	2947	2466	2556
65°	2571	1939	2352
70°	2352	1692	2352
75°	2353	1801	2593
80°	2554	2121	2955
85°	2803	2394	3170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.7	4.2
10°-20°	952.4	12.0
20°-30°	1412.2	17.8
30°-40°	1593.1	20.1
40°-50°	1442.9	18.2
50°-60°	1041.0	13.1
60°-70°	621.6	7.8
70°-80°	384.2	4.8
80°-90°	161.8	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°	2698.4	34.0
0°-40°	4291.5	54.0
0°-60°	6775.4	85.3
0°-90°	7943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3524	3524	3524	3524	3524	
5°	3528	3523	3508	3505	3517	335
15°	3402	3381	3367	3368	3382	959
25°	3100	3082	3066	3055	3064	1424
35°	2573	2570	2544	2545	2548	1610
45°	1914	1902	1888	1842	1814	1475
55°	1260	1221	1147	1091	1088	1125
65°	709	625	535	607	649	713
75°	398	345	304	379	438	425
85°	160	140	136	178	180	167
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3524.2	3524.2	3524.2	3524.2	3524.2
2.5°	3536.4	3526.7	3514.4	3521.8	3527.9
5°	3527.9	3523.0	3508.2	3504.6	3516.9
7.5°	3509.5	3497.2	3483.8	3489.8	3484.9
10°	3481.3	3470.2	3453.0	3454.3	3462.8
12.5°	3446.9	3433.4	3415.0	3419.9	3427.2
15°	3401.5	3380.6	3367.2	3368.4	3381.8
17.5°	3343.8	3327.9	3310.7	3314.4	3320.5
20°	3277.5	3269.0	3244.4	3237.1	3243.2
22.5°	3194.1	3178.2	3164.7	3161.0	3162.2
25°	3099.6	3082.4	3066.5	3055.4	3064.1
27.5°	2989.2	2974.4	2953.6	2949.9	2957.3
30°	2864.0	2853.0	2834.6	2829.6	2840.7
32.5°	2736.4	2718.0	2692.2	2692.2	2694.7
35°	2573.2	2569.6	2543.7	2545.0	2547.5
37.5°	2426.0	2408.8	2394.0	2379.3	2386.7
40°	2262.7	2243.2	2223.5	2213.7	2210.0
42.5°	2087.3	2072.5	2064.0	2028.4	2019.8
45°	1914.3	1902.0	1888.5	1841.8	1813.6
47.5°	1737.6	1735.1	1724.1	1641.8	1613.6
50°	1573.1	1569.5	1530.2	1443.1	1414.9
52.5°	1417.3	1392.8	1341.2	1255.3	1250.4
55°	1260.3	1220.9	1147.3	1090.9	1088.5
57.5°	1094.5	1048.0	973.1	942.4	958.3
60°	962.1	890.9	805.0	808.6	834.4
62.5°	824.6	744.8	660.2	697.0	727.6
65°	709.3	624.6	535.0	607.4	649.1
67.5°	608.6	530.1	444.2	541.2	581.7
70°	525.2	461.4	377.9	479.8	525.2
72.5°	458.9	400.0	335.0	430.7	483.5
75°	397.6	344.8	304.3	379.2	438.1
77.5°	344.8	293.3	274.9	335.0	392.7
80°	289.6	243.0	240.5	292.0	335.0
82.5°	225.8	193.9	193.9	244.2	270.0
85°	159.5	139.9	136.2	177.9	180.4
87.5°	82.2	78.5	71.2	93.3	93.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)