

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: P231779

Luminaire Tested: **24GR-LD5-100-F1-UNV-L950-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-100-F1-UNV-L950-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10040.0 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

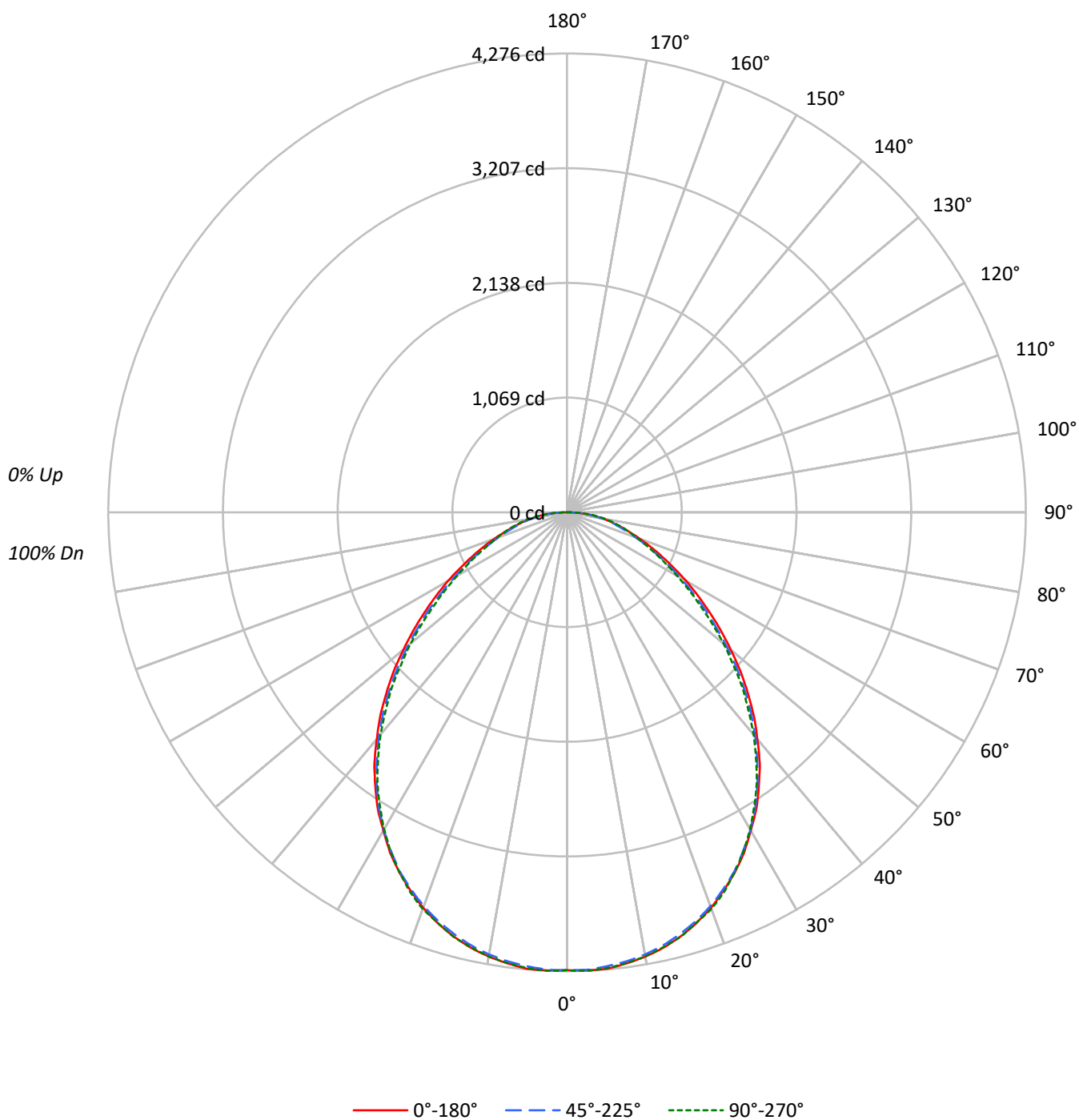
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		95	92	90		91	89	87
2	100	92	86	81	98	91	85	80		87	82	78		84	80	76		81	77	74
3	92	82	74	68	90	80	73	68		78	71	66		75	70	65		72	68	64
4	85	73	65	59	82	72	64	58		70	63	57		67	61	57		65	60	56
5	78	66	57	51	76	65	57	51		63	56	50		61	55	50		59	54	49
6	73	60	51	45	71	59	51	45		57	50	44		55	49	44		54	48	44
7	67	54	46	40	66	54	46	40		52	45	40		51	44	39		49	44	39
8	63	50	42	36	61	49	41	36		48	41	36		47	40	36		46	40	35
9	59	46	38	33	58	45	38	33		44	37	32		43	37	32		42	36	32
10	55	43	35	30	54	42	35	30		41	34	30		40	34	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6535	6535	6535
5°	6565	6529	6556
10°	6539	6507	6536
15°	6487	6452	6492
20°	6392	6367	6413
25°	6254	6238	6251
30°	6056	6045	6031
35°	5828	5784	5760
40°	5516	5453	5409
45°	5160	5065	5004
50°	4742	4615	4536
55°	4325	4165	4044
60°	3927	3716	3620
65°	3538	3339	3282
70°	3240	3029	3113
75°	3028	2888	3102
80°	3003	2948	3239
85°	3061	3088	3529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.8	4.0
10°-20°	1148.1	11.4
20°-30°	1696.1	16.9
30°-40°	1928.3	19.2
40°-50°	1800.8	17.9
50°-60°	1400.4	13.9
60°-70°	929.2	9.3
70°-80°	537.7	5.4
80°-90°	195.5	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°	3248.0	32.4
0°-40°	5176.4	51.6
0°-60°	8377.6	83.4
0°-90°	10040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4267	4267	4267	4267	4267	
5°	4270	4248	4247	4254	4264	405
15°	4091	4071	4069	4068	4094	1153
25°	3700	3685	3691	3683	3699	1701
35°	3117	3101	3093	3071	3081	1946
45°	2382	2364	2338	2308	2310	1836
55°	1620	1596	1560	1519	1514	1452
65°	976	946	921	904	906	976
75°	512	499	488	510	524	547
85°	174	171	176	199	201	189
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4267.0	4267.0	4267.0	4267.0	4267.0
2.5°	4273.3	4260.7	4267.0	4262.3	4276.5
5°	4270.2	4248.2	4246.6	4254.4	4263.9
7.5°	4240.3	4216.8	4221.5	4221.5	4237.2
10°	4204.2	4180.7	4183.8	4185.4	4202.7
12.5°	4155.6	4132.0	4133.6	4132.0	4149.3
15°	4091.3	4070.9	4069.2	4067.7	4094.4
17.5°	4012.7	3984.5	3994.0	3995.5	4009.6
20°	3921.7	3899.8	3906.1	3904.5	3934.3
22.5°	3813.4	3797.8	3802.5	3799.3	3827.6
25°	3700.5	3684.8	3691.1	3683.2	3698.9
27.5°	3573.4	3562.4	3556.1	3551.4	3562.4
30°	3424.2	3418.0	3418.0	3397.6	3410.1
32.5°	3283.0	3262.6	3262.6	3254.8	3247.0
35°	3116.7	3101.0	3093.2	3071.2	3080.6
37.5°	2950.3	2914.3	2911.1	2893.9	2893.9
40°	2758.8	2738.5	2727.5	2708.7	2705.5
42.5°	2576.8	2556.5	2537.6	2506.2	2500.0
45°	2382.3	2363.5	2338.3	2308.5	2310.0
47.5°	2189.2	2162.5	2139.0	2102.9	2098.2
50°	1989.9	1971.1	1936.6	1905.2	1903.6
52.5°	1803.2	1773.3	1741.9	1704.3	1704.3
55°	1619.5	1596.0	1559.9	1519.2	1514.4
57.5°	1443.8	1421.8	1381.0	1351.2	1343.3
60°	1282.1	1250.8	1213.1	1188.0	1181.7
62.5°	1120.5	1092.3	1064.0	1038.9	1037.3
65°	976.2	946.3	921.2	903.9	905.5
67.5°	845.8	820.7	792.5	787.8	789.3
70°	723.4	696.8	676.4	687.3	695.2
72.5°	607.3	593.2	579.1	594.8	605.8
75°	511.6	499.0	488.0	510.1	524.2
77.5°	423.7	414.3	412.8	431.5	444.1
80°	340.5	329.6	334.2	356.3	367.2
82.5°	258.9	251.1	252.7	279.4	287.2
85°	174.2	171.1	175.7	199.3	200.8
87.5°	92.5	92.5	95.7	109.8	105.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)