

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: P293080

Luminaire Tested: **24GR-LD5-30-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-F1-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2388.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

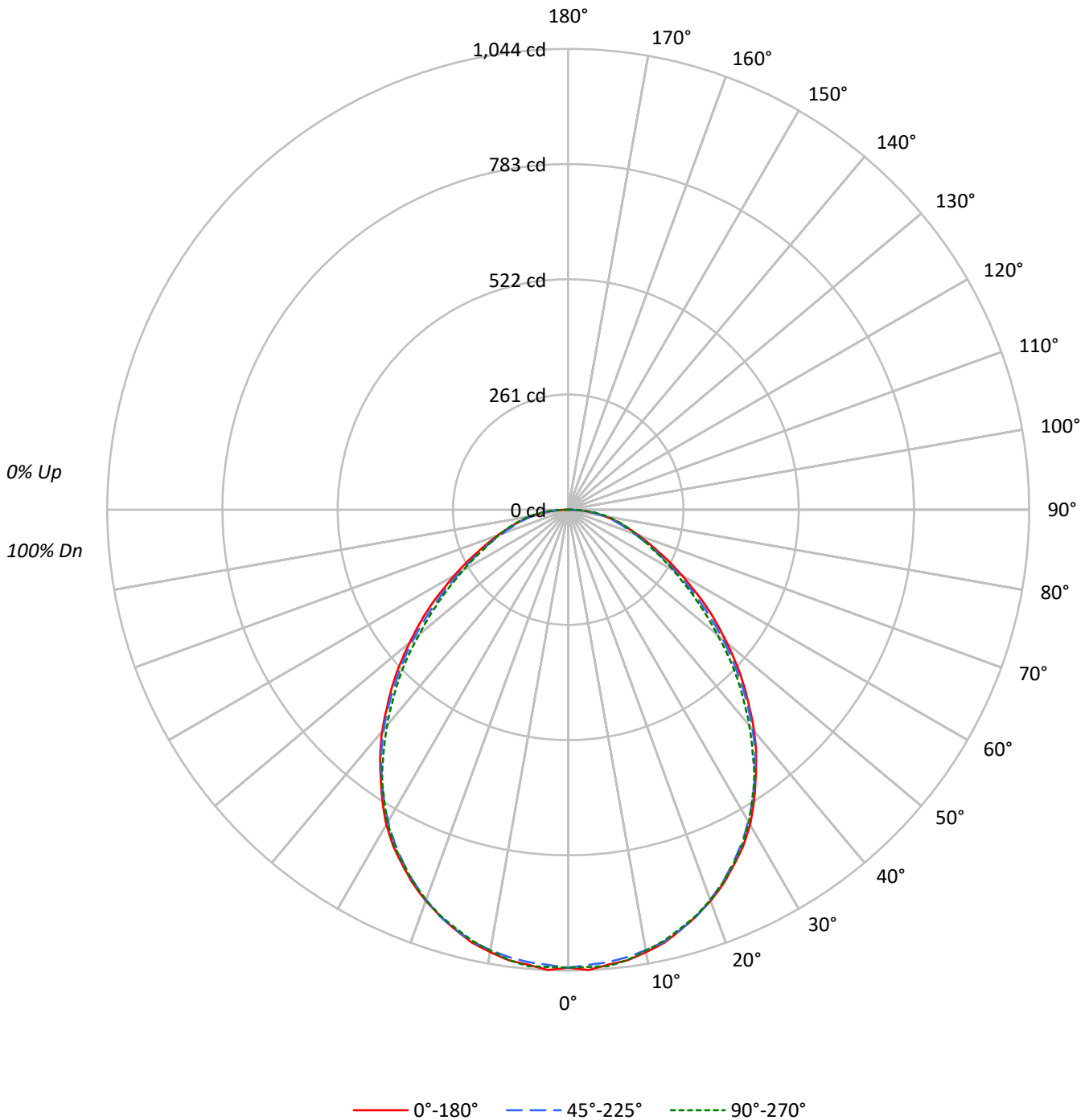
Input Watts (W): 19.902
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56
5	78	66	58	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	45	56	49	44	54	48	44
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1396	1396	1396
5°	1398	1390	1402
10°	1390	1384	1386
15°	1373	1372	1368
20°	1350	1347	1347
25°	1318	1311	1314
30°	1280	1267	1271
35°	1216	1210	1207
40°	1152	1141	1121
45°	1070	1051	1031
50°	980	959	923
55°	895	855	826
60°	798	759	739
65°	718	681	671
70°	666	626	651
75°	637	609	661
80°	638	638	706
85°	662	668	746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	4.1
10°-20°	277.2	11.6
20°-30°	406.9	17.0
30°-40°	460.0	19.3
40°-50°	425.1	17.8
50°-60°	327.5	13.7
60°-70°	216.9	9.1
70°-80°	129.1	5.4
80°-90°	47.3	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°	782.0	32.7
0°-40°	1242.0	52.0
0°-60°	1994.7	83.5
0°-90°	2388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2388.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1037	1037	1037	1037	1037	
5°	1035	1035	1029	1029	1038	98
15°	986	984	985	984	982	278
25°	888	886	883	882	885	409
35°	740	739	737	733	735	463
45°	562	558	553	543	542	433
55°	382	374	364	355	352	340
65°	226	222	214	212	211	226
75°	123	120	117	123	127	131
85°	43	40	43	48	48	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1037.3	1037.3	1037.3	1037.3	1037.3
2.5°	1043.7	1038.3	1032.4	1032.4	1036.8
5°	1034.8	1034.8	1028.9	1029.4	1037.8
7.5°	1029.4	1026.5	1022.5	1022.5	1028.9
10°	1017.6	1015.1	1013.2	1012.2	1014.1
12.5°	1004.8	1000.8	1002.3	1000.8	1000.4
15°	985.6	983.6	984.6	984.1	982.1
17.5°	964.9	963.9	965.9	962.4	963.9
20°	942.7	939.8	940.8	938.8	940.8
22.5°	917.6	915.6	913.2	910.7	914.6
25°	888.1	885.6	883.1	882.1	885.1
27.5°	858.5	854.6	851.1	850.1	854.6
30°	824.0	819.6	815.6	814.7	818.1
32.5°	783.1	782.2	777.2	775.3	776.7
35°	740.3	739.3	736.8	733.4	734.9
37.5°	699.4	698.9	695.5	689.6	685.6
40°	655.6	652.1	649.7	641.3	638.3
42.5°	607.3	606.3	601.9	592.5	589.1
45°	562.5	558.5	552.6	542.8	541.8
47.5°	516.2	510.8	505.3	493.0	492.5
50°	468.4	464.5	458.1	445.7	440.8
52.5°	424.1	418.7	409.8	398.0	395.5
55°	381.7	373.8	364.5	354.6	352.2
57.5°	336.4	333.0	321.6	313.7	310.8
60°	296.5	293.6	282.2	274.8	274.8
62.5°	260.6	256.1	246.3	241.3	241.3
65°	225.6	222.1	213.8	211.8	210.8
67.5°	195.5	191.1	185.2	184.7	187.2
70°	169.4	164.0	159.1	164.0	165.5
72.5°	144.8	141.4	136.9	143.3	146.3
75°	122.6	119.7	117.2	122.6	127.1
77.5°	102.4	99.5	99.5	105.4	109.3
80°	82.3	80.3	82.3	87.2	91.1
82.5°	63.0	61.6	64.0	69.0	71.4
85°	42.9	40.4	43.3	47.8	48.3
87.5°	20.2	19.7	21.7	24.6	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)