

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: P293791

Luminaire Tested: **24GR-LD5-30-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A125-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2375.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

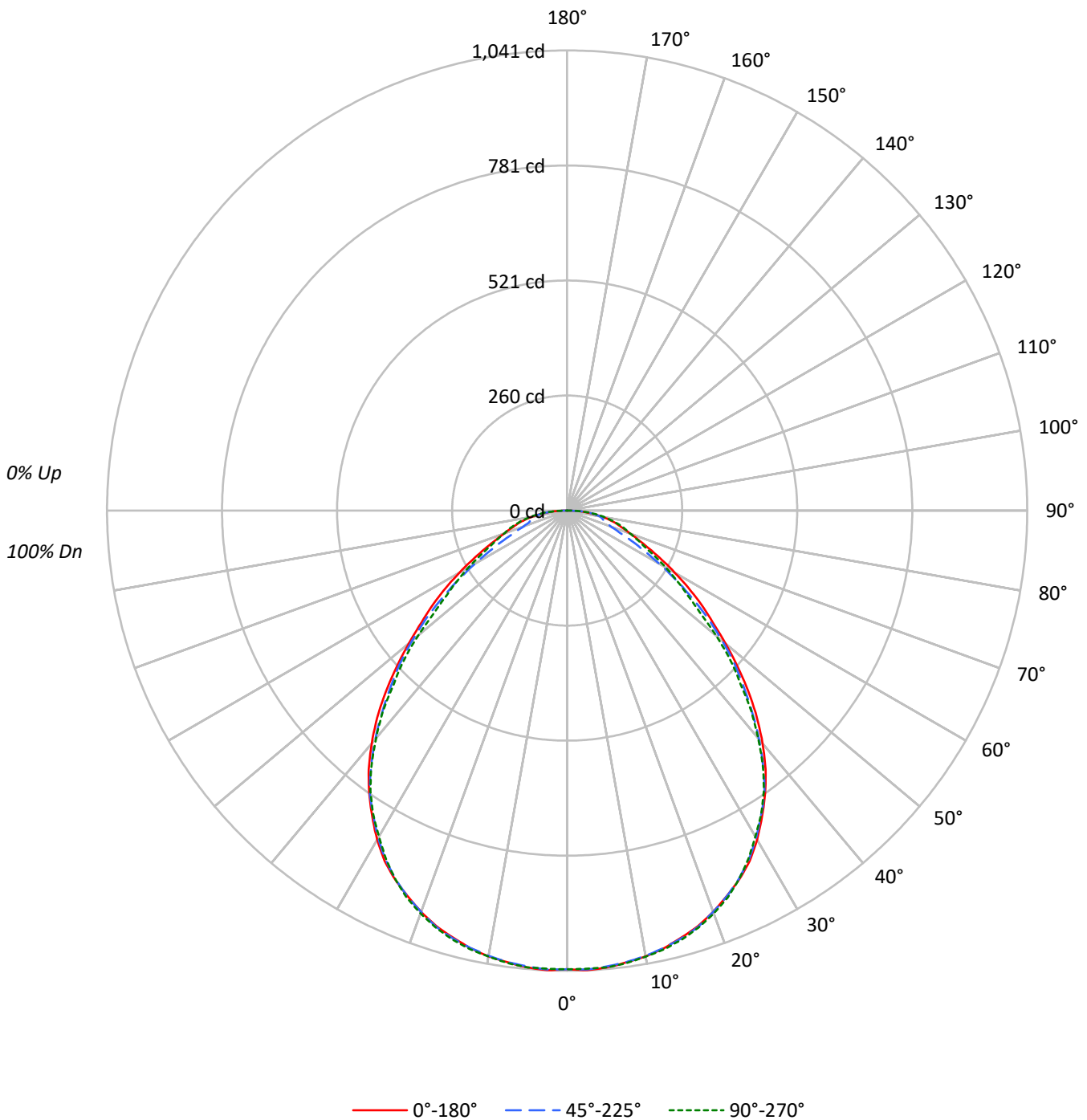
Input Watts (W): 20.454885
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	1396	1396	1396
5°	1401	1398	1401
10°	1399	1397	1400
15°	1392	1395	1399
20°	1383	1383	1388
25°	1367	1365	1366
30°	1336	1329	1322
35°	1283	1279	1274
40°	1208	1186	1181
45°	1106	1075	1055
50°	977	958	921
55°	869	810	779
60°	757	648	695
65°	654	502	614
70°	596	411	595
75°	601	443	632
80°	626	577	666
85°	651	687	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	4.1
10°-20°	282.3	11.9
20°-30°	422.6	17.8
30°-40°	482.9	20.3
40°-50°	436.6	18.4
50°-60°	314.1	13.2
60°-70°	182.1	7.7
70°-80°	108.0	4.5
80°-90°	47.8	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°	803.4	33.8
0°-40°	1286.3	54.2
0°-60°	2037.0	85.8
0°-90°	2375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1038	1038	1038	1038	1038	
5°	1037	1036	1035	1034	1037	99
15°	1000	1002	1002	1000	1004	282
25°	921	920	919	917	920	423
35°	781	777	779	769	776	487
45°	581	571	565	560	555	446
55°	370	364	345	336	332	331
65°	205	182	158	176	193	207
75°	116	97	85	105	122	122
85°	42	46	44	51	48	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1037.8	1037.8	1037.8	1037.8	1037.8
2.5°	1040.8	1037.1	1038.9	1037.8	1037.4
5°	1037.4	1035.9	1035.2	1033.7	1037.1
7.5°	1030.8	1029.6	1030.0	1030.4	1032.6
10°	1024.1	1022.2	1022.6	1023.3	1024.5
12.5°	1013.7	1012.6	1013.0	1013.7	1016.3
15°	999.6	1001.5	1001.5	1000.4	1004.1
17.5°	985.6	985.2	987.0	983.7	988.9
20°	965.9	966.3	965.9	966.3	969.6
22.5°	943.7	945.5	944.4	944.4	948.1
25°	921.1	920.0	919.2	917.4	920.0
27.5°	894.0	891.8	890.0	886.3	888.1
30°	859.6	859.9	855.1	851.8	851.1
32.5°	821.0	821.0	816.6	814.0	816.2
35°	781.0	777.3	778.8	769.2	775.8
37.5°	737.7	731.8	728.4	725.1	727.3
40°	688.0	680.3	675.4	668.8	672.5
42.5°	635.8	626.2	620.2	615.4	616.9
45°	581.0	571.0	565.0	559.8	554.7
47.5°	523.2	516.9	513.9	507.2	501.3
50°	466.8	464.6	457.6	452.0	439.8
52.5°	415.3	413.5	402.4	393.1	377.5
55°	370.5	363.5	345.3	336.4	332.0
57.5°	324.9	313.4	291.6	290.5	293.4
60°	281.2	267.1	240.8	246.8	258.2
62.5°	241.6	220.5	195.3	209.3	223.0
65°	205.3	182.3	157.8	176.4	193.0
67.5°	175.3	152.3	127.1	151.9	171.2
70°	151.5	128.2	104.5	133.0	151.2
72.5°	131.9	110.8	91.1	118.2	137.1
75°	115.6	96.7	85.2	105.2	121.5
77.5°	99.3	84.1	81.5	93.7	103.7
80°	80.8	73.7	74.5	82.3	86.0
82.5°	60.4	60.8	62.6	68.9	67.4
85°	42.2	45.6	44.5	51.1	47.8
87.5°	23.3	25.6	24.1	29.3	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)