

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: P293463

Luminaire Tested: **24GR-LD5-30-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3175.0 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

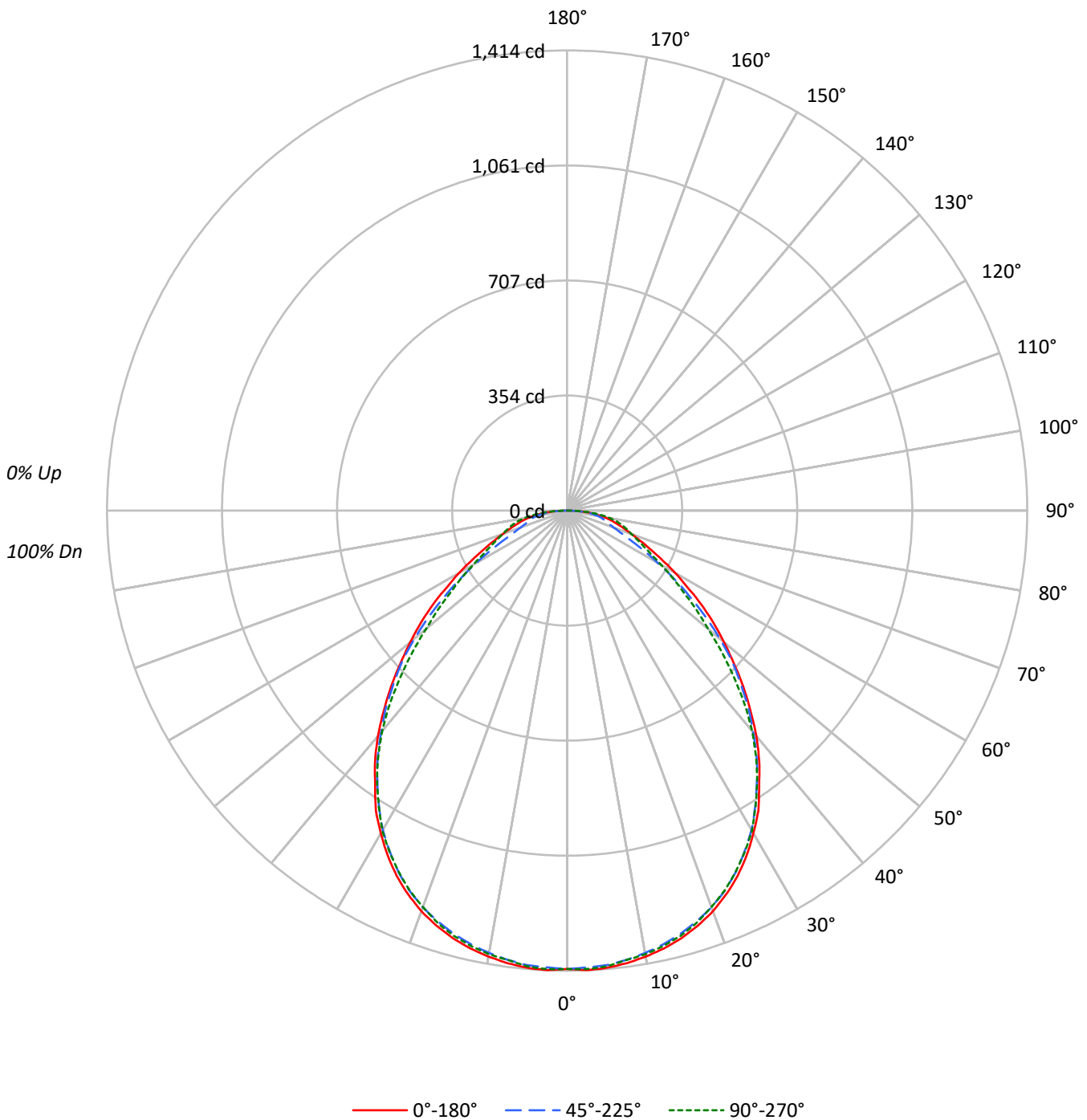
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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°	1895	1895	1895
5°	1905	1894	1899
10°	1901	1886	1891
15°	1894	1875	1883
20°	1876	1857	1856
25°	1839	1820	1818
30°	1779	1760	1764
35°	1690	1670	1673
40°	1589	1561	1552
45°	1456	1436	1380
50°	1316	1280	1184
55°	1182	1076	1021
60°	1035	866	897
65°	903	681	826
70°	826	594	826
75°	826	632	910
80°	897	745	1038
85°	985	840	1113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	4.2
10°-20°	380.7	12.0
20°-30°	564.5	17.8
30°-40°	636.8	20.1
40°-50°	576.8	18.2
50°-60°	416.1	13.1
60°-70°	248.5	7.8
70°-80°	153.6	4.8
80°-90°	64.7	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°	1078.6	34.0
0°-40°	1715.4	54.0
0°-60°	2708.3	85.3
0°-90°	3175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1409	1409	1409	1409	1409	
5°	1410	1408	1402	1401	1406	134
15°	1360	1351	1346	1346	1352	383
25°	1239	1232	1226	1221	1225	569
35°	1029	1027	1017	1017	1018	644
45°	765	760	755	736	725	590
55°	504	488	459	436	435	450
65°	284	250	214	243	260	285
75°	159	138	122	152	175	170
85°	64	56	54	71	72	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1408.7	1408.7	1408.7	1408.7	1408.7
2.5°	1413.6	1409.7	1404.8	1407.7	1410.2
5°	1410.2	1408.2	1402.3	1400.9	1405.8
7.5°	1402.8	1397.9	1392.5	1395.0	1393.0
10°	1391.5	1387.1	1380.3	1380.8	1384.2
12.5°	1377.8	1372.4	1365.1	1367.0	1370.0
15°	1359.7	1351.3	1345.9	1346.4	1351.8
17.5°	1336.6	1330.2	1323.4	1324.8	1327.3
20°	1310.1	1306.7	1296.9	1293.9	1296.4
22.5°	1276.8	1270.4	1265.0	1263.5	1264.0
25°	1239.0	1232.1	1225.8	1221.3	1224.8
27.5°	1194.9	1189.0	1180.6	1179.2	1182.1
30°	1144.8	1140.4	1133.1	1131.1	1135.5
32.5°	1093.8	1086.5	1076.2	1076.2	1077.1
35°	1028.6	1027.1	1016.8	1017.3	1018.3
37.5°	969.7	962.8	957.0	951.1	954.0
40°	904.5	896.6	888.8	884.9	883.4
42.5°	834.3	828.5	825.0	810.8	807.4
45°	765.2	760.3	754.9	736.2	725.0
47.5°	694.5	693.6	689.1	656.3	645.0
50°	628.8	627.3	611.7	576.8	565.5
52.5°	566.5	556.7	536.1	501.8	499.8
55°	503.7	488.0	458.6	436.1	435.1
57.5°	437.5	418.9	389.0	376.7	383.1
60°	384.6	356.1	321.8	323.2	333.5
62.5°	329.6	297.7	263.9	278.6	290.9
65°	283.5	249.7	213.9	242.8	259.5
67.5°	243.3	211.9	177.6	216.3	232.5
70°	209.9	184.4	151.1	191.8	209.9
72.5°	183.4	159.9	133.9	172.2	193.3
75°	158.9	137.8	121.6	151.6	175.1
77.5°	137.8	117.2	109.9	133.9	157.0
80°	115.8	97.1	96.1	116.7	133.9
82.5°	90.3	77.5	77.5	97.6	107.9
85°	63.8	55.9	54.4	71.1	72.1
87.5°	32.9	31.4	28.4	37.3	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)