

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: P294095

Luminaire Tested: **24GR-LD5-30-A19/156-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33308)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A19/156-UNV-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2797.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

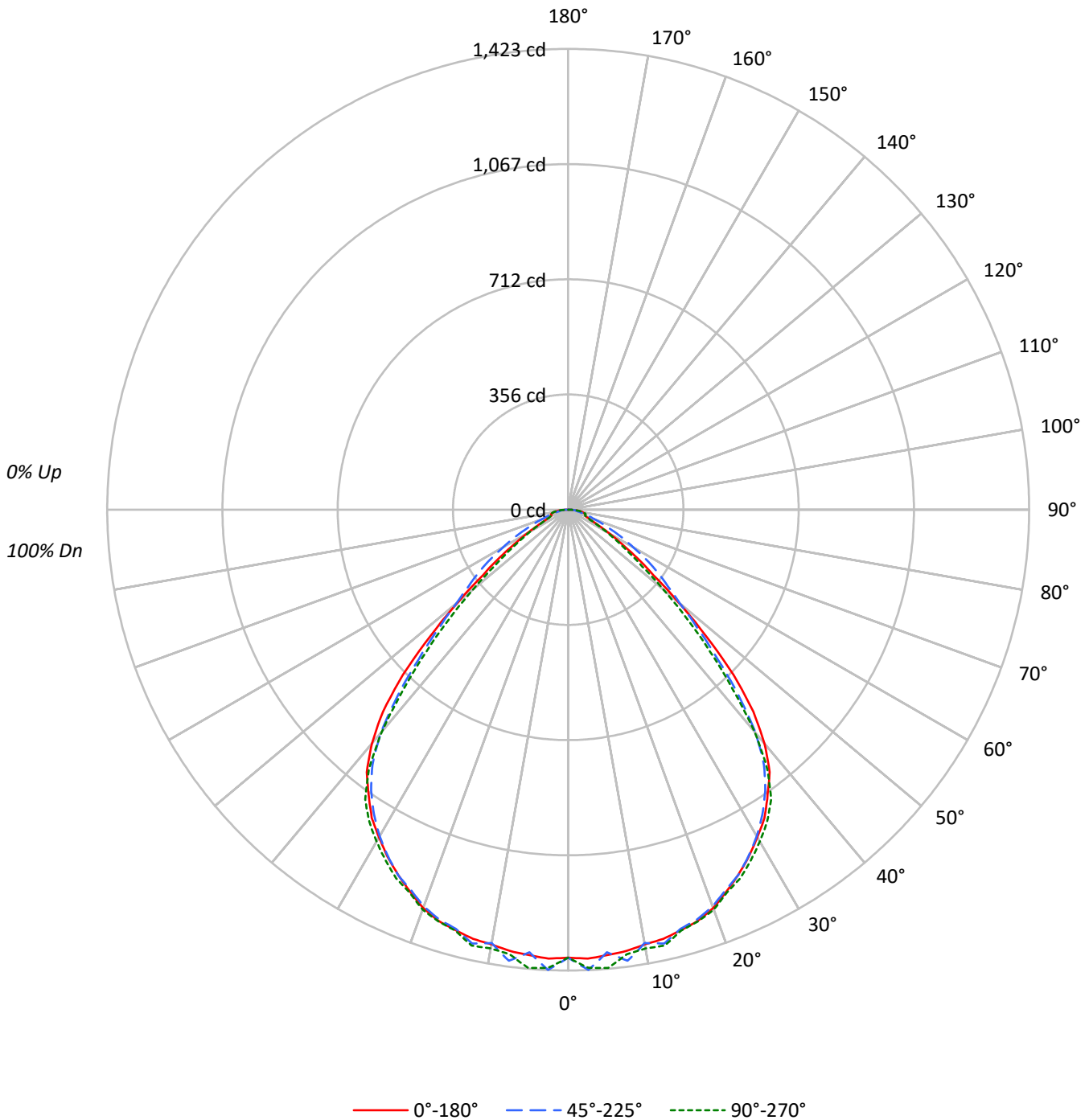
Input Watts (W): 20.646
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1861	1861	1861
5°	1865	1853	1918
10°	1862	1856	1879
15°	1873	1866	1874
20°	1874	1866	1882
25°	1845	1847	1864
30°	1814	1809	1838
35°	1763	1742	1794
40°	1656	1582	1573
45°	1373	1242	1178
50°	923	942	805
55°	609	790	528
60°	390	624	361
65°	252	476	245
70°	223	341	223
75°	287	271	290
80°	352	233	369
85°	409	347	429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	4.7
10°-20°	380.2	13.6
20°-30°	572.4	20.5
30°-40°	663.5	23.7
40°-50°	518.3	18.5
50°-60°	276.7	9.9
60°-70°	142.3	5.1
70°-80°	80.5	2.9
80°-90°	30.6	1.1
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°	1085.1	38.8
0°-40°	1748.6	62.5
0°-60°	2543.6	90.9
0°-90°	2797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1381	1419	1372	1410	1420	131
15°	1344	1353	1340	1348	1345	380
25°	1243	1239	1244	1242	1256	573
35°	1074	1069	1060	1082	1092	669
45°	721	722	653	647	619	544
55°	260	328	337	304	225	240
65°	79	165	150	164	77	87
75°	55	104	52	97	56	56
85°	26	35	22	35	28	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1383.0	1383.0	1383.0	1383.0	1383.0
2.5°	1387.5	1412.7	1422.6	1410.4	1415.8
5°	1380.8	1419.4	1371.8	1409.5	1420.3
7.5°	1374.5	1370.5	1405.0	1369.1	1384.4
10°	1362.8	1365.5	1358.8	1384.4	1375.4
12.5°	1357.4	1373.2	1371.8	1358.8	1378.5
15°	1344.4	1352.9	1339.9	1348.4	1345.3
17.5°	1331.4	1327.3	1326.0	1329.6	1332.7
20°	1308.9	1295.4	1303.5	1304.4	1314.3
22.5°	1276.6	1268.5	1270.3	1278.4	1279.3
25°	1242.9	1238.8	1243.8	1242.0	1255.9
27.5°	1207.9	1202.5	1205.6	1212.3	1220.9
30°	1167.9	1166.5	1164.3	1170.1	1183.1
32.5°	1128.3	1117.6	1115.8	1127.9	1142.7
35°	1073.5	1068.6	1060.5	1081.6	1092.4
37.5°	1021.4	1006.2	993.1	1005.7	1010.2
40°	942.8	931.2	900.6	902.0	895.7
42.5°	846.3	837.7	779.3	769.0	751.5
45°	721.4	721.8	652.7	646.8	619.0
47.5°	576.3	601.9	541.7	535.0	493.7
50°	441.1	487.4	450.1	439.3	384.5
52.5°	331.0	398.9	387.2	363.8	288.4
55°	259.6	328.4	336.9	303.6	225.0
57.5°	195.4	270.4	284.3	256.9	173.8
60°	145.1	227.7	231.8	221.0	134.3
62.5°	107.8	193.6	188.2	189.6	99.7
65°	79.1	164.9	149.6	164.4	76.8
67.5°	64.7	142.8	116.3	142.4	62.4
70°	56.6	126.7	86.7	125.3	56.6
72.5°	54.8	116.3	68.7	111.4	55.2
75°	55.2	103.8	52.1	97.0	55.7
77.5°	50.8	85.3	39.5	82.6	53.0
80°	45.4	64.7	30.1	65.6	47.6
82.5°	38.6	47.2	24.3	48.5	40.0
85°	26.5	34.6	22.5	34.6	27.8
87.5°	12.6	20.7	13.9	19.8	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)