

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: P293461

Luminaire Tested: **24GR-LD5-30-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293461
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3077.9 lumens
Efficiency: N/A
Efficacy: 151.8 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

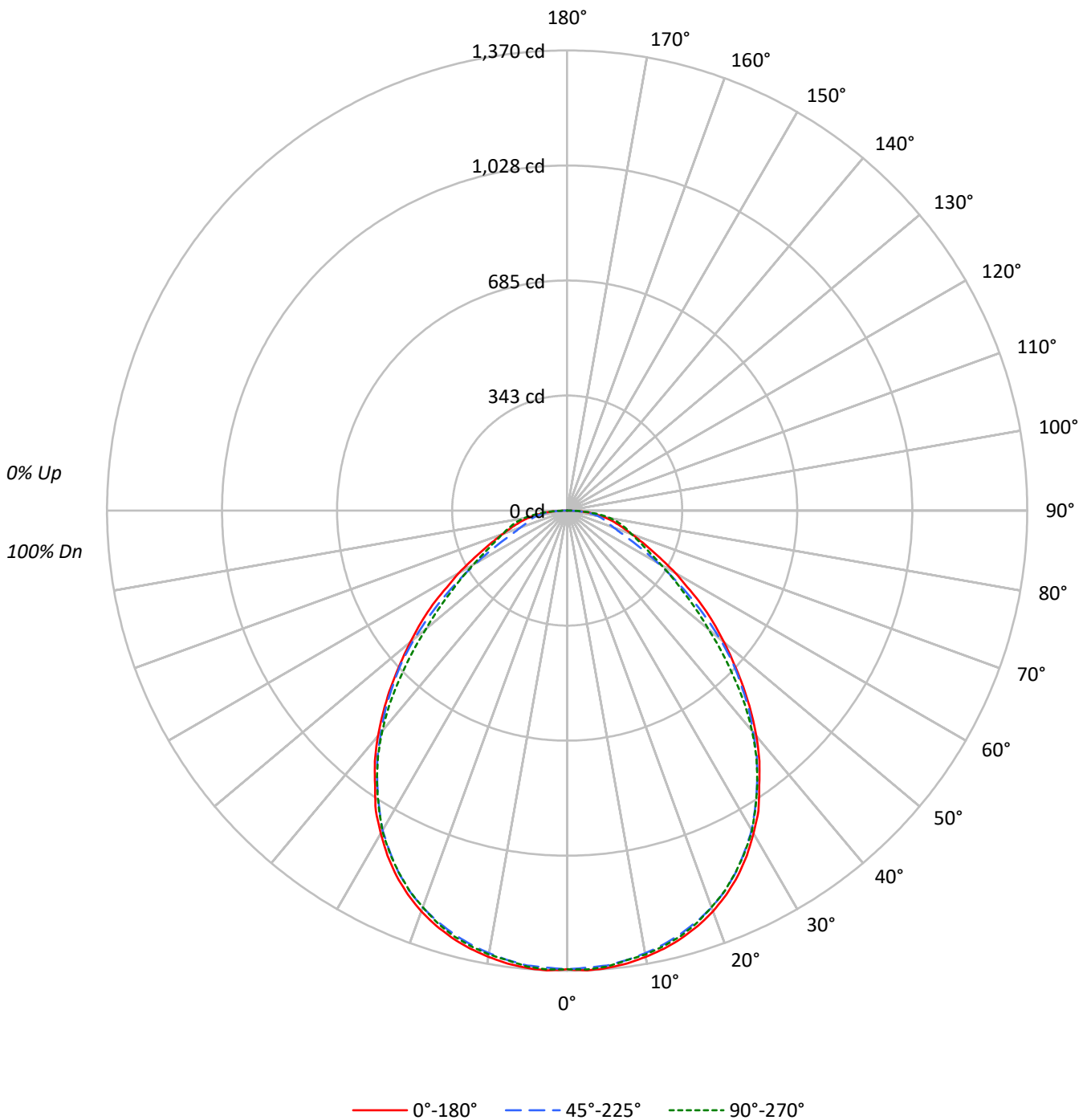
Input Watts (W): 20.274
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1838	1838	1838
5°	1846	1836	1841
10°	1843	1828	1833
15°	1836	1818	1825
20°	1819	1800	1800
25°	1783	1764	1763
30°	1724	1707	1710
35°	1638	1619	1622
40°	1540	1513	1504
45°	1412	1392	1337
50°	1276	1241	1148
55°	1146	1043	989
60°	1003	839	870
65°	875	660	801
70°	801	576	801
75°	801	613	883
80°	869	722	1006
85°	954	815	1079



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	4.2
10°-20°	369.1	12.0
20°-30°	547.3	17.8
30°-40°	617.4	20.1
40°-50°	559.1	18.2
50°-60°	403.4	13.1
60°-70°	240.8	7.8
70°-80°	148.9	4.8
80°-90°	62.7	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°	1045.6	34.0
0°-40°	1663.0	54.0
0°-60°	2625.5	85.3
0°-90°	3077.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3077.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1367	1365	1360	1358	1363	130
15°	1318	1310	1305	1305	1310	372
25°	1201	1194	1188	1184	1187	552
35°	997	996	986	986	987	624
45°	742	737	732	714	703	572
55°	488	473	445	423	422	436
65°	275	242	207	235	252	276
75°	154	134	118	147	170	165
85°	62	54	53	69	70	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1365.7	1365.7	1365.7	1365.7	1365.7
2.5°	1370.4	1366.6	1361.9	1364.7	1367.1
5°	1367.1	1365.2	1359.5	1358.1	1362.8
7.5°	1360.0	1355.2	1350.0	1352.4	1350.5
10°	1349.0	1344.8	1338.1	1338.6	1341.9
12.5°	1335.7	1330.5	1323.4	1325.3	1328.1
15°	1318.1	1310.0	1304.8	1305.3	1310.5
17.5°	1295.8	1289.6	1282.9	1284.4	1286.7
20°	1270.1	1266.8	1257.3	1254.4	1256.8
22.5°	1237.8	1231.6	1226.3	1224.9	1225.4
25°	1201.1	1194.5	1188.3	1184.0	1187.4
27.5°	1158.3	1152.6	1144.6	1143.1	1146.0
30°	1109.8	1105.6	1098.4	1096.5	1100.8
32.5°	1060.4	1053.3	1043.3	1043.3	1044.2
35°	997.2	995.7	985.7	986.2	987.2
37.5°	940.1	933.4	927.7	922.0	924.9
40°	876.8	869.2	861.6	857.8	856.4
42.5°	808.8	803.1	799.8	786.0	782.7
45°	741.8	737.0	731.8	713.7	702.8
47.5°	673.3	672.4	668.1	636.2	625.3
50°	609.6	608.2	593.0	559.2	548.3
52.5°	549.2	539.7	519.7	486.4	484.5
55°	488.4	473.1	444.6	422.7	421.8
57.5°	424.2	406.1	377.1	365.2	371.4
60°	372.8	345.2	311.9	313.4	323.3
62.5°	319.5	288.6	255.8	270.1	282.0
65°	274.8	242.0	207.3	235.4	251.5
67.5°	235.9	205.4	172.1	209.7	225.4
70°	203.5	178.8	146.5	185.9	203.5
72.5°	177.8	155.0	129.8	166.9	187.4
75°	154.1	133.6	117.9	146.9	169.8
77.5°	133.6	113.6	106.5	129.8	152.2
80°	112.2	94.2	93.2	113.2	129.8
82.5°	87.5	75.1	75.1	94.6	104.6
85°	61.8	54.2	52.8	68.9	69.9
87.5°	31.9	30.4	27.6	36.1	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)