

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: P293458

Luminaire Tested: **24GR-LD5-30-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293458
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2830.0 lumens
Efficiency: N/A
Efficacy: 141.5 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

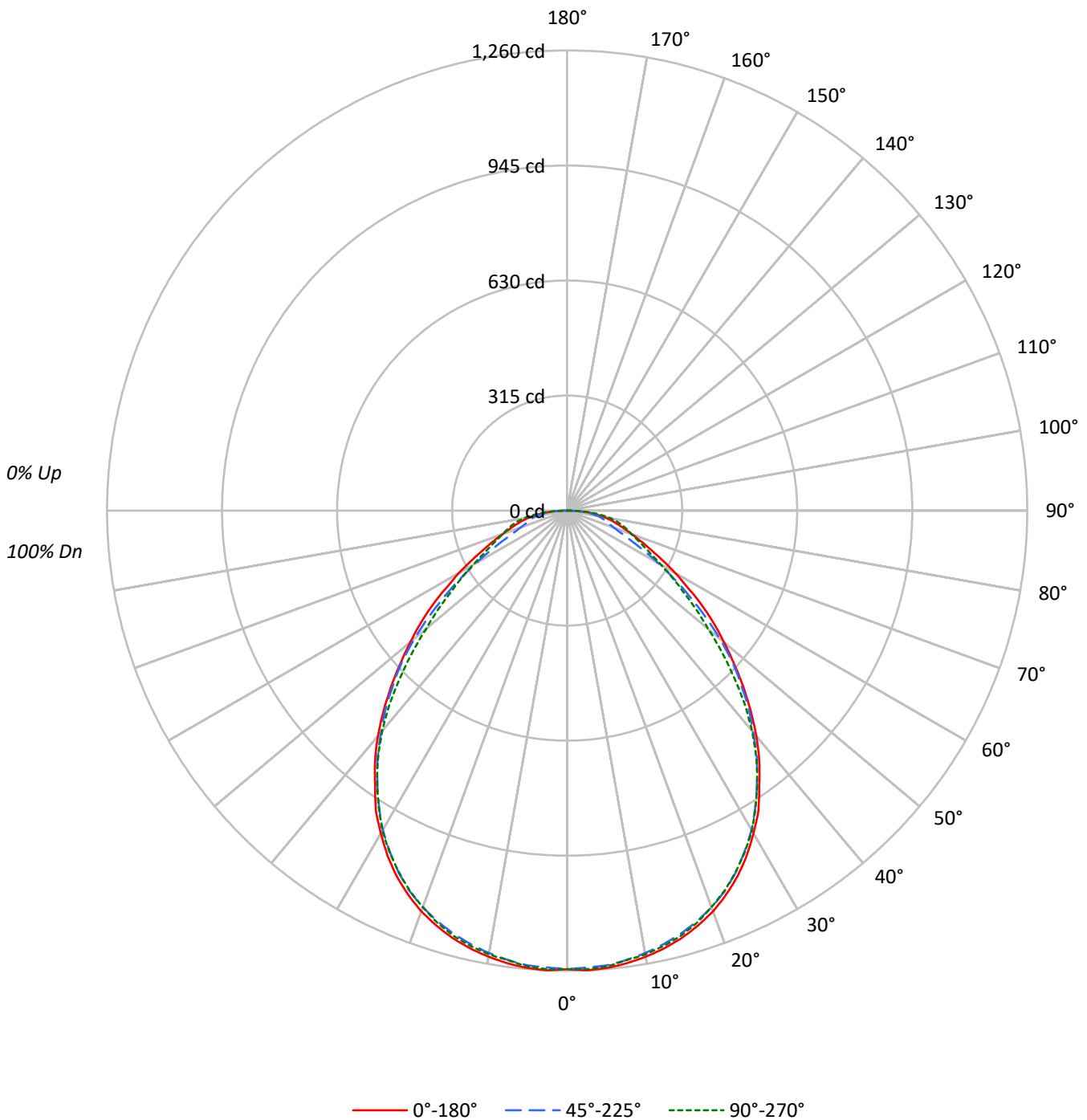
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1689	1689	1689
5°	1698	1688	1692
10°	1695	1681	1686
15°	1688	1671	1678
20°	1672	1655	1654
25°	1640	1622	1621
30°	1585	1569	1572
35°	1506	1489	1491
40°	1416	1391	1383
45°	1298	1280	1230
50°	1173	1141	1055
55°	1053	959	910
60°	922	772	800
65°	805	607	736
70°	736	530	736
75°	737	564	811
80°	800	664	925
85°	877	749	993



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	4.2
10°-20°	339.3	12.0
20°-30°	503.2	17.8
30°-40°	567.6	20.1
40°-50°	514.1	18.2
50°-60°	370.9	13.1
60°-70°	221.5	7.8
70°-80°	136.9	4.8
80°-90°	57.7	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°	961.4	34.0
0°-40°	1529.0	54.0
0°-60°	2414.0	85.3
0°-90°	2830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1257	1255	1250	1249	1253	119
15°	1212	1204	1200	1200	1205	342
25°	1104	1098	1093	1089	1092	507
35°	917	916	906	907	908	574
45°	682	678	673	656	646	526
55°	449	435	409	389	388	401
65°	253	222	191	216	231	254
75°	142	123	108	135	156	151
85°	57	50	48	63	64	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1255.6	1255.6	1255.6	1255.6	1255.6
2.5°	1260.0	1256.5	1252.1	1254.8	1256.9
5°	1256.9	1255.2	1250.0	1248.6	1253.0
7.5°	1250.4	1246.0	1241.2	1243.4	1241.6
10°	1240.3	1236.4	1230.3	1230.7	1233.8
12.5°	1228.1	1223.3	1216.7	1218.5	1221.1
15°	1211.9	1204.5	1199.7	1200.1	1204.9
17.5°	1191.4	1185.7	1179.6	1180.9	1183.1
20°	1167.8	1164.7	1156.0	1153.3	1155.5
22.5°	1138.0	1132.3	1127.5	1126.2	1126.7
25°	1104.4	1098.2	1092.6	1088.6	1091.7
27.5°	1065.0	1059.8	1052.3	1051.0	1053.7
30°	1020.4	1016.5	1009.9	1008.2	1012.1
32.5°	975.0	968.4	959.2	959.2	960.1
35°	916.8	915.5	906.3	906.8	907.6
37.5°	864.3	858.2	853.0	847.7	850.4
40°	806.2	799.2	792.2	788.7	787.4
42.5°	743.7	738.4	735.4	722.7	719.6
45°	682.0	677.7	672.9	656.2	646.2
47.5°	619.1	618.2	614.3	585.0	574.9
50°	560.5	559.2	545.2	514.1	504.1
52.5°	505.0	496.2	477.9	447.3	445.5
55°	449.0	435.0	408.8	388.7	387.8
57.5°	390.0	373.4	346.7	335.8	341.5
60°	342.8	317.4	286.8	288.1	297.3
62.5°	293.8	265.4	235.2	248.3	259.3
65°	252.7	222.5	190.6	216.4	231.3
67.5°	216.9	188.9	158.3	192.8	207.2
70°	187.1	164.4	134.7	170.9	187.1
72.5°	163.5	142.5	119.4	153.5	172.3
75°	141.7	122.9	108.4	135.1	156.1
77.5°	122.9	104.5	97.9	119.4	139.9
80°	103.2	86.6	85.7	104.1	119.4
82.5°	80.4	69.1	69.1	87.0	96.2
85°	56.8	49.8	48.5	63.4	64.3
87.5°	29.3	28.0	25.4	33.2	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)