

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: P293459

Luminaire Tested: **24GR-LD5-30-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293459
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2911.0 lumens
Efficiency: N/A
Efficacy: 147.0 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

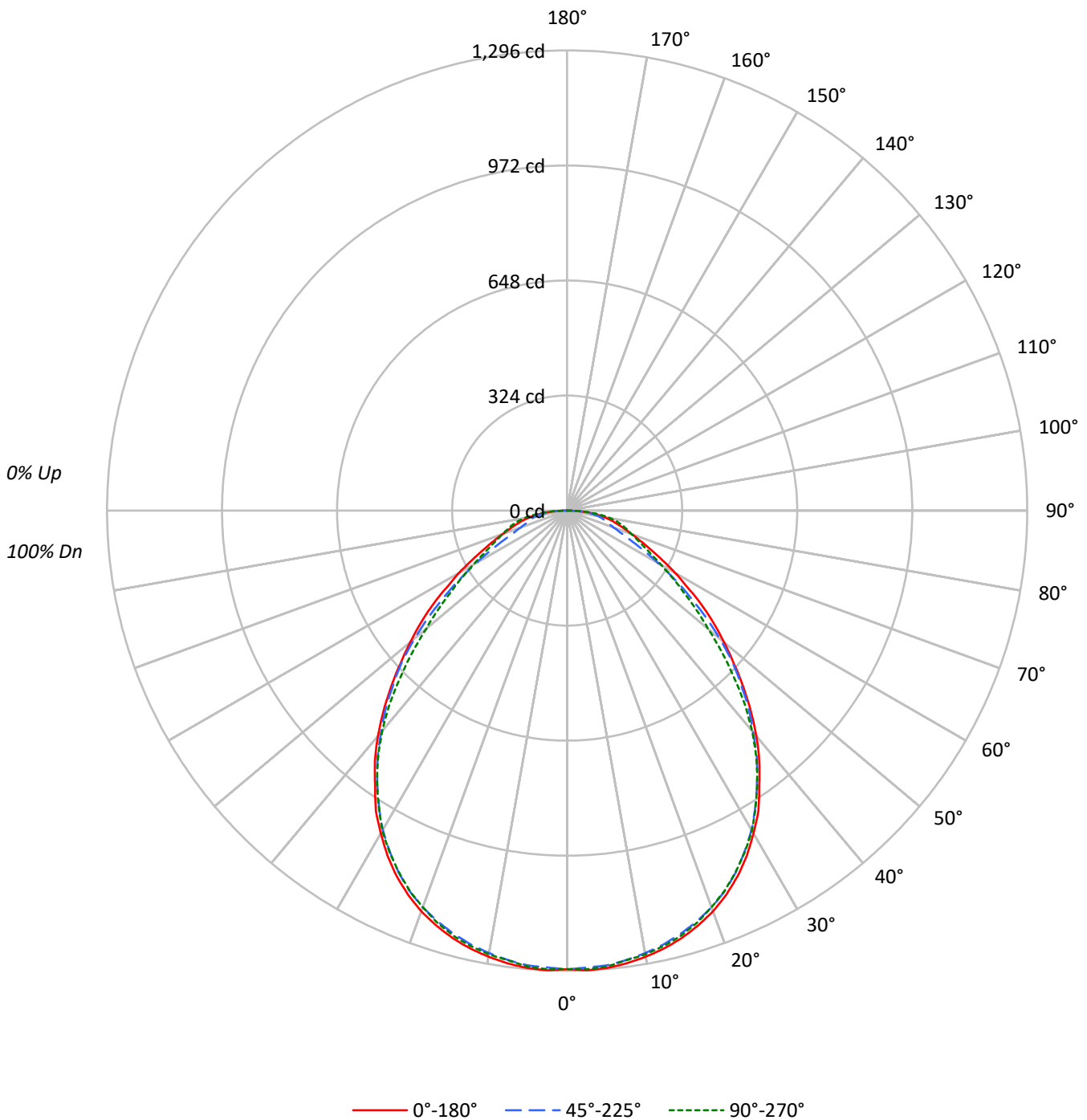
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1738	1738	1738
5°	1746	1737	1741
10°	1743	1729	1734
15°	1736	1719	1726
20°	1720	1702	1702
25°	1686	1668	1667
30°	1631	1614	1617
35°	1549	1531	1533
40°	1457	1431	1423
45°	1335	1317	1265
50°	1207	1174	1085
55°	1084	986	936
60°	949	794	823
65°	827	624	757
70°	757	545	757
75°	757	580	834
80°	822	683	951
85°	903	770	1020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	4.2
10°-20°	349.0	12.0
20°-30°	517.6	17.8
30°-40°	583.9	20.1
40°-50°	528.8	18.2
50°-60°	381.5	13.1
60°-70°	227.8	7.8
70°-80°	140.8	4.8
80°-90°	59.3	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°	988.9	34.0
0°-40°	1572.8	54.0
0°-60°	2483.1	85.3
0°-90°	2911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1293	1291	1286	1284	1289	123
15°	1247	1239	1234	1234	1239	351
25°	1136	1130	1124	1120	1123	522
35°	943	942	932	933	934	590
45°	702	697	692	675	665	541
55°	462	448	420	400	399	412
65°	260	229	196	223	238	261
75°	146	126	112	139	160	156
85°	58	51	50	65	66	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1291.6	1291.6	1291.6	1291.6	1291.6
2.5°	1296.1	1292.5	1288.0	1290.7	1292.9
5°	1292.9	1291.1	1285.7	1284.4	1288.9
7.5°	1286.2	1281.7	1276.7	1279.0	1277.2
10°	1275.8	1271.8	1265.5	1265.9	1269.1
12.5°	1263.2	1258.3	1251.6	1253.4	1256.0
15°	1246.6	1239.0	1234.0	1234.5	1239.4
17.5°	1225.5	1219.6	1213.3	1214.7	1216.9
20°	1201.2	1198.0	1189.0	1186.3	1188.6
22.5°	1170.6	1164.8	1159.8	1158.5	1158.9
25°	1136.0	1129.7	1123.8	1119.8	1122.9
27.5°	1095.5	1090.1	1082.5	1081.1	1083.8
30°	1049.6	1045.6	1038.8	1037.0	1041.1
32.5°	1002.9	996.1	986.7	986.7	987.6
35°	943.0	941.7	932.3	932.7	933.6
37.5°	889.1	882.8	877.4	872.0	874.7
40°	829.3	822.1	814.9	811.3	809.9
42.5°	765.0	759.6	756.4	743.4	740.2
45°	701.6	697.1	692.1	675.0	664.7
47.5°	636.8	635.9	631.8	601.7	591.4
50°	576.5	575.2	560.8	528.9	518.5
52.5°	519.4	510.4	491.5	460.1	458.3
55°	461.9	447.5	420.5	399.8	398.9
57.5°	401.1	384.1	356.6	345.4	351.2
60°	352.6	326.5	295.0	296.4	305.8
62.5°	302.2	273.0	241.9	255.4	266.7
65°	259.9	228.9	196.1	222.6	237.9
67.5°	223.1	194.3	162.8	198.3	213.2
70°	192.5	169.1	138.5	175.8	192.5
72.5°	168.2	146.6	122.8	157.8	177.2
75°	145.7	126.4	111.5	139.0	160.5
77.5°	126.4	107.5	100.7	122.8	143.9
80°	106.1	89.0	88.1	107.0	122.8
82.5°	82.7	71.1	71.1	89.5	98.9
85°	58.5	51.3	49.9	65.2	66.1
87.5°	30.1	28.8	26.1	34.2	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)