

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: P293591

Luminaire Tested: **24GR-LD5-30-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293591
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-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2907.0 lumens
Efficiency: N/A
Efficacy: 140.8 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

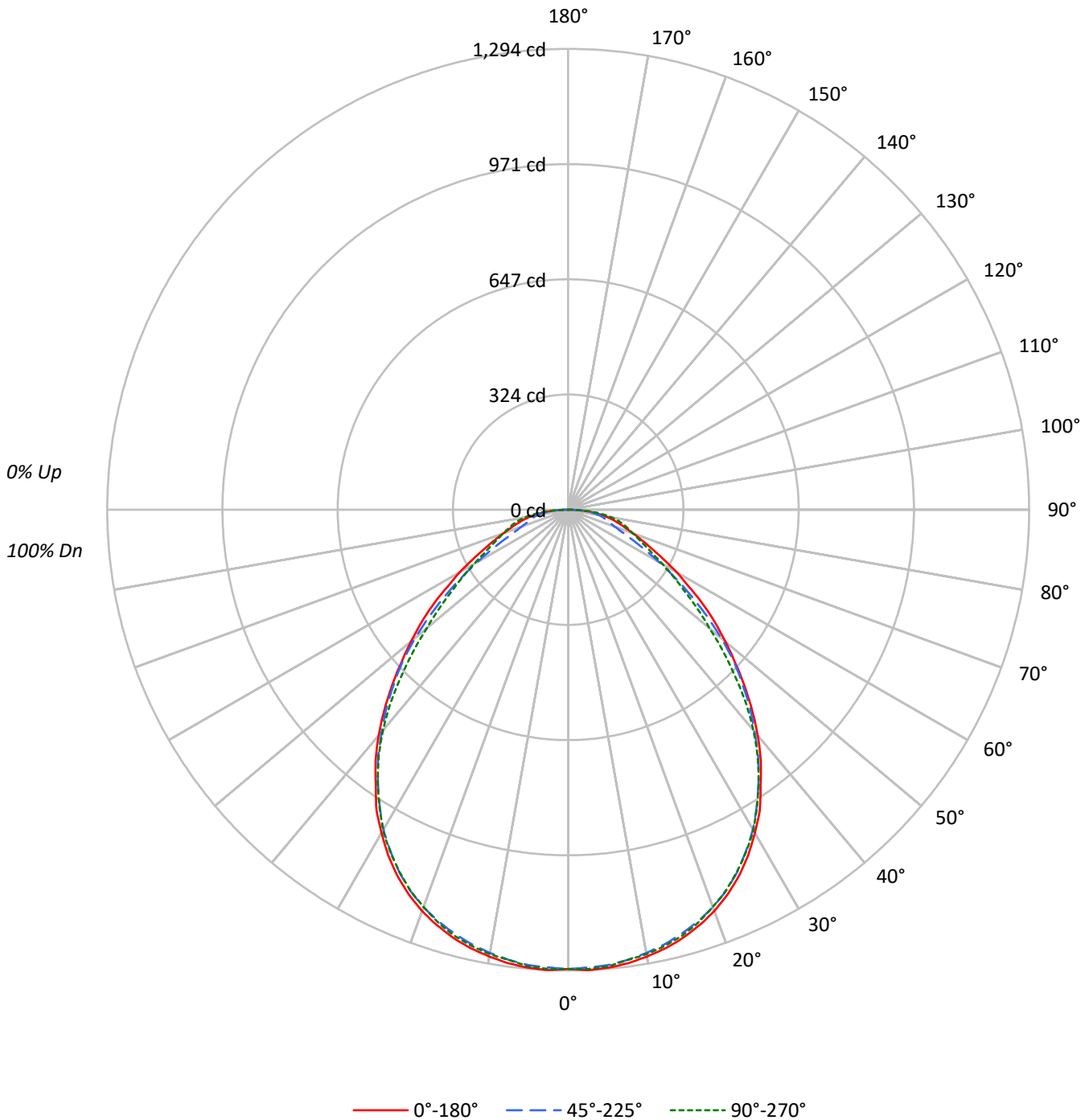
Input Watts (W): 20.646
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1735	1735	1735
5°	1744	1734	1738
10°	1741	1727	1731
15°	1734	1717	1724
20°	1717	1700	1700
25°	1684	1666	1665
30°	1629	1612	1615
35°	1547	1529	1531
40°	1454	1429	1421
45°	1333	1315	1263
50°	1205	1172	1084
55°	1082	985	934
60°	947	793	822
65°	826	623	756
70°	756	544	756
75°	756	579	833
80°	821	682	950
85°	902	769	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	4.2
10°-20°	348.6	12.0
20°-30°	516.8	17.8
30°-40°	583.1	20.1
40°-50°	528.1	18.2
50°-60°	381.0	13.1
60°-70°	227.5	7.8
70°-80°	140.6	4.8
80°-90°	59.2	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°	987.6	34.0
0°-40°	1570.6	54.0
0°-60°	2479.7	85.3
0°-90°	2907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1290	1290	1290	1290	1290	
5°	1291	1289	1284	1283	1287	123
15°	1245	1237	1232	1233	1238	351
25°	1134	1128	1122	1118	1121	521
35°	942	940	931	931	932	589
45°	701	696	691	674	664	540
55°	461	447	420	399	398	412
65°	260	229	196	222	238	261
75°	146	126	111	139	160	155
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°	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1294.3	1290.7	1286.2	1288.9	1291.1
5°	1291.1	1289.4	1284.0	1282.6	1287.1
7.5°	1284.4	1279.9	1275.0	1277.2	1275.4
10°	1274.1	1270.0	1263.8	1264.2	1267.3
12.5°	1261.5	1256.6	1249.8	1251.6	1254.3
15°	1244.9	1237.3	1232.3	1232.8	1237.7
17.5°	1223.8	1217.9	1211.7	1213.0	1215.3
20°	1199.5	1196.4	1187.4	1184.7	1187.0
22.5°	1169.0	1163.2	1158.2	1156.9	1157.3
25°	1134.4	1128.1	1122.3	1118.2	1121.4
27.5°	1094.0	1088.6	1081.0	1079.6	1082.3
30°	1048.2	1044.1	1037.4	1035.6	1039.7
32.5°	1001.5	994.7	985.3	985.3	986.2
35°	941.8	940.4	931.0	931.4	932.3
37.5°	887.9	881.6	876.2	870.8	873.5
40°	828.1	820.9	813.8	810.2	808.8
42.5°	763.9	758.5	755.4	742.4	739.2
45°	700.6	696.1	691.2	674.1	663.8
47.5°	635.9	635.0	631.0	600.9	590.6
50°	575.7	574.4	560.0	528.1	517.8
52.5°	518.7	509.7	490.9	459.4	457.6
55°	461.2	446.8	419.9	399.2	398.3
57.5°	400.6	383.5	356.1	344.9	350.7
60°	352.1	326.0	294.6	296.0	305.4
62.5°	301.8	272.6	241.6	255.1	266.3
65°	259.6	228.6	195.8	222.3	237.6
67.5°	222.8	194.0	162.6	198.1	212.9
70°	192.2	168.9	138.3	175.6	192.2
72.5°	168.0	146.4	122.6	157.6	176.9
75°	145.5	126.2	111.4	138.8	160.3
77.5°	126.2	107.3	100.6	122.6	143.7
80°	106.0	88.9	88.0	106.9	122.6
82.5°	82.6	71.0	71.0	89.4	98.8
85°	58.4	51.2	49.8	65.1	66.0
87.5°	30.1	28.7	26.0	34.1	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)