

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: P293590

Luminaire Tested: **24GR-LD5-30-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293590
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2895.0 lumens
Efficiency: N/A
Efficacy: 140.9 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

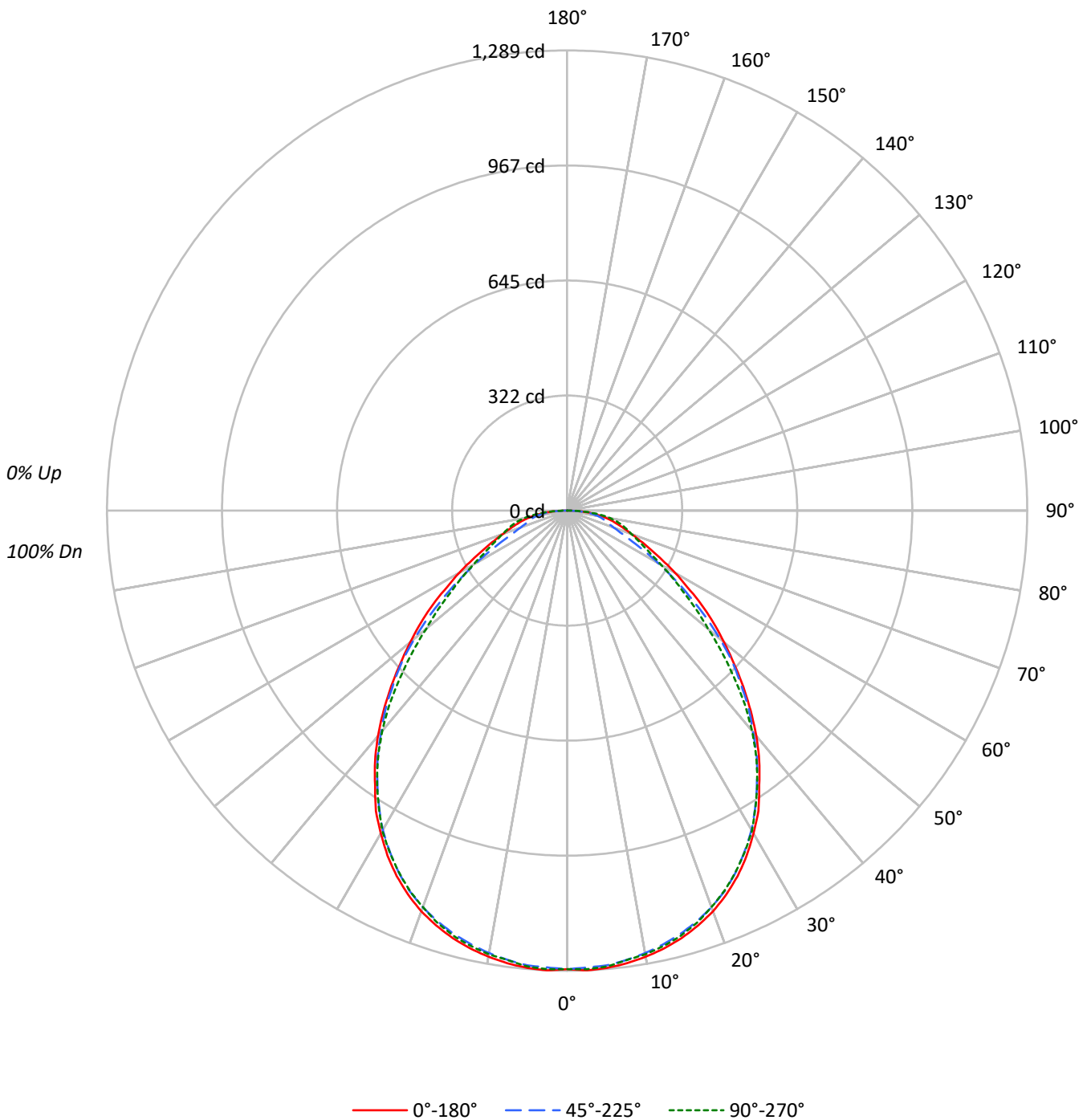
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1728	1728	1728
5°	1737	1727	1731
10°	1733	1719	1724
15°	1727	1709	1717
20°	1710	1693	1693
25°	1677	1659	1658
30°	1622	1605	1609
35°	1541	1523	1525
40°	1449	1423	1415
45°	1328	1310	1258
50°	1200	1167	1079
55°	1077	981	931
60°	943	790	818
65°	823	621	753
70°	753	542	753
75°	753	577	830
80°	817	680	946
85°	897	766	1014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	4.2
10°-20°	347.1	12.0
20°-30°	514.7	17.8
30°-40°	580.7	20.1
40°-50°	525.9	18.2
50°-60°	379.4	13.1
60°-70°	226.5	7.8
70°-80°	140.0	4.8
80°-90°	59.0	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°	983.5	34.0
0°-40°	1564.1	54.0
0°-60°	2469.5	85.3
0°-90°	2895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1286	1284	1279	1277	1282	122
15°	1240	1232	1227	1228	1233	349
25°	1130	1124	1118	1114	1117	519
35°	938	936	927	928	928	587
45°	698	693	688	671	661	538
55°	459	445	418	398	397	410
65°	258	228	195	221	237	260
75°	145	126	111	138	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°	1284.5	1284.5	1284.5	1284.5	1284.5
2.5°	1289.0	1285.4	1280.9	1283.6	1285.8
5°	1285.8	1284.0	1278.7	1277.3	1281.8
7.5°	1279.1	1274.6	1269.7	1272.0	1270.2
10°	1268.8	1264.8	1258.5	1259.0	1262.1
12.5°	1256.3	1251.4	1244.7	1246.5	1249.1
15°	1239.8	1232.2	1227.2	1227.7	1232.6
17.5°	1218.7	1212.9	1206.7	1208.0	1210.2
20°	1194.6	1191.5	1182.5	1179.8	1182.1
22.5°	1164.2	1158.4	1153.4	1152.1	1152.5
25°	1129.7	1123.5	1117.7	1113.6	1116.8
27.5°	1089.5	1084.1	1076.5	1075.2	1077.9
30°	1043.9	1039.8	1033.1	1031.3	1035.4
32.5°	997.3	990.6	981.2	981.2	982.1
35°	937.9	936.5	927.1	927.6	928.5
37.5°	884.2	877.9	872.6	867.2	869.9
40°	824.7	817.6	810.4	806.8	805.5
42.5°	760.8	755.4	752.3	739.3	736.2
45°	697.7	693.2	688.3	671.3	661.0
47.5°	633.3	632.4	628.4	598.4	588.1
50°	573.4	572.0	557.7	526.0	515.7
52.5°	516.6	507.6	488.8	457.5	455.7
55°	459.3	445.0	418.2	397.6	396.7
57.5°	398.9	381.9	354.7	343.5	349.3
60°	350.6	324.7	293.4	294.7	304.1
62.5°	300.5	271.5	240.6	254.0	265.2
65°	258.5	227.6	195.0	221.4	236.6
67.5°	221.8	193.2	161.9	197.2	212.0
70°	191.4	168.2	137.8	174.9	191.4
72.5°	167.3	145.8	122.1	157.0	176.2
75°	144.9	125.7	110.9	138.2	159.7
77.5°	125.7	106.9	100.2	122.1	143.1
80°	105.5	88.6	87.7	106.4	122.1
82.5°	82.3	70.7	70.7	89.0	98.4
85°	58.1	51.0	49.6	64.9	65.7
87.5°	30.0	28.6	25.9	34.0	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)