

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: P293540

Luminaire Tested: **24GR-LD5-30-A-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293540
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-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2621.0 lumens
Efficiency: N/A
Efficacy: 128.6 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

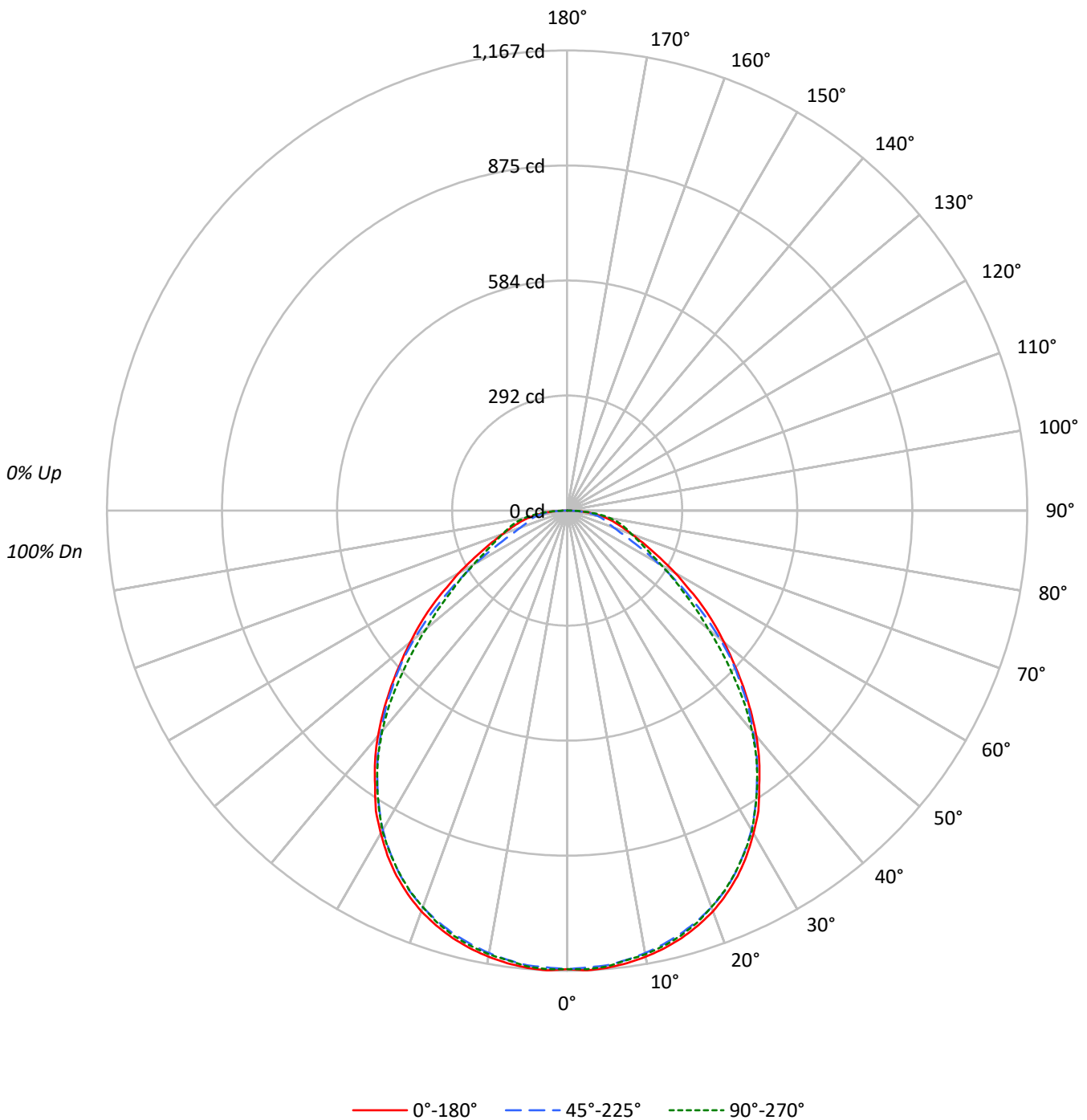
Input Watts (W): 20.374905
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1565	1565	1565
5°	1572	1563	1567
10°	1569	1557	1561
15°	1563	1548	1554
20°	1549	1533	1532
25°	1518	1502	1501
30°	1468	1453	1456
35°	1395	1379	1381
40°	1312	1289	1281
45°	1202	1186	1139
50°	1087	1057	977
55°	975	888	843
60°	854	715	741
65°	745	562	682
70°	682	491	682
75°	682	522	752
80°	741	615	856
85°	812	693	919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	4.2
10°-20°	314.3	12.0
20°-30°	466.0	17.8
30°-40°	525.7	20.1
40°-50°	476.1	18.2
50°-60°	343.5	13.1
60°-70°	205.1	7.8
70°-80°	126.8	4.8
80°-90°	53.4	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°	890.4	34.0
0°-40°	1416.1	54.0
0°-60°	2235.8	85.3
0°-90°	2621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1164	1162	1158	1156	1160	111
15°	1122	1116	1111	1112	1116	316
25°	1023	1017	1012	1008	1011	470
35°	849	848	839	840	841	531
45°	632	628	623	608	598	487
55°	416	403	379	360	359	371
65°	234	206	176	200	214	235
75°	131	114	100	125	145	140
85°	53	46	45	59	60	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.9	1162.9	1162.9	1162.9	1162.9
2.5°	1167.0	1163.7	1159.7	1162.1	1164.1
5°	1164.1	1162.5	1157.6	1156.4	1160.5
7.5°	1158.0	1154.0	1149.5	1151.6	1150.0
10°	1148.7	1145.1	1139.4	1139.8	1142.7
12.5°	1137.4	1132.9	1126.9	1128.5	1130.9
15°	1122.4	1115.5	1111.1	1111.5	1115.9
17.5°	1103.4	1098.1	1092.5	1093.7	1095.7
20°	1081.5	1078.7	1070.6	1068.2	1070.2
22.5°	1054.0	1048.7	1044.3	1043.1	1043.5
25°	1022.8	1017.1	1011.9	1008.2	1011.1
27.5°	986.4	981.5	974.6	973.4	975.8
30°	945.1	941.4	935.3	933.7	937.4
32.5°	903.0	896.9	888.4	888.4	889.2
35°	849.1	847.9	839.4	839.8	840.6
37.5°	800.5	794.8	790.0	785.1	787.6
40°	746.7	740.2	733.7	730.5	729.2
42.5°	688.8	683.9	681.1	669.3	666.5
45°	631.7	627.6	623.2	607.8	598.5
47.5°	573.4	572.5	568.9	541.8	532.5
50°	519.1	517.9	504.9	476.2	466.9
52.5°	467.7	459.6	442.6	414.2	412.6
55°	415.8	402.9	378.6	360.0	359.2
57.5°	361.2	345.8	321.1	311.0	316.2
60°	317.5	294.0	265.6	266.8	275.3
62.5°	272.1	245.8	217.8	230.0	240.1
65°	234.0	206.1	176.5	200.4	214.2
67.5°	200.8	174.9	146.6	178.6	191.9
70°	173.3	152.2	124.7	158.3	173.3
72.5°	151.4	132.0	110.5	142.1	159.5
75°	131.2	113.8	100.4	125.1	144.6
77.5°	113.8	96.8	90.7	110.5	129.6
80°	95.6	80.2	79.4	96.4	110.5
82.5°	74.5	64.0	64.0	80.6	89.1
85°	52.6	46.2	44.9	58.7	59.5
87.5°	27.1	25.9	23.5	30.8	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)