

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: P293710

Luminaire Tested: **24GR-LD5-30-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A125-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2802.0 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

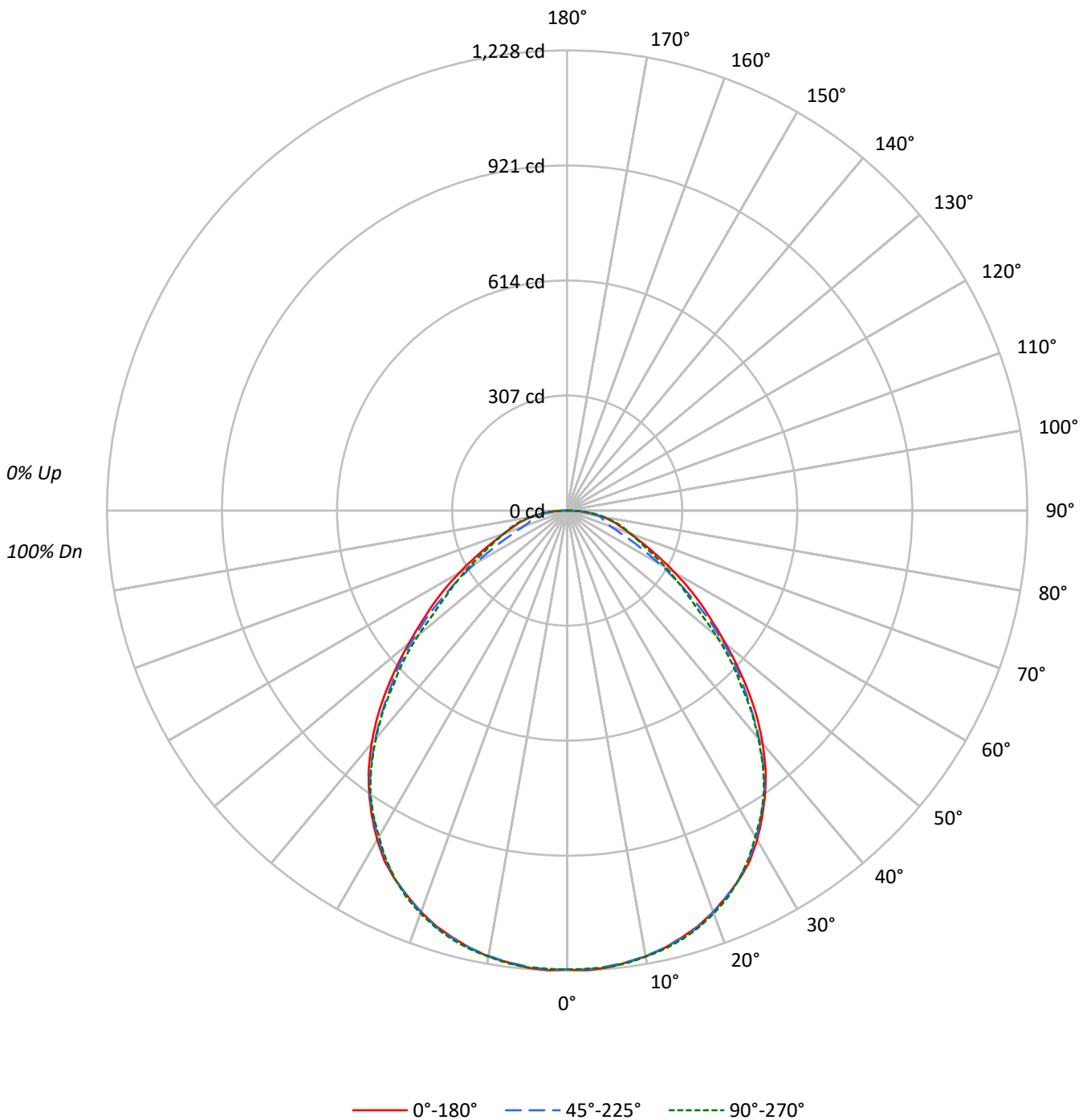
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	1647	1647	1647
5°	1653	1650	1652
10°	1651	1648	1651
15°	1643	1646	1650
20°	1632	1632	1638
25°	1613	1610	1611
30°	1576	1567	1560
35°	1514	1509	1503
40°	1426	1400	1394
45°	1304	1268	1245
50°	1153	1130	1086
55°	1025	956	919
60°	893	765	820
65°	771	593	725
70°	703	485	701
75°	709	522	745
80°	738	681	786
85°	769	810	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	4.1
10°-20°	333.1	11.9
20°-30°	498.6	17.8
30°-40°	569.7	20.3
40°-50°	515.1	18.4
50°-60°	370.6	13.2
60°-70°	214.8	7.7
70°-80°	127.4	4.5
80°-90°	56.4	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°	947.8	33.8
0°-40°	1517.6	54.2
0°-60°	2403.3	85.8
0°-90°	2802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1224	1222	1221	1220	1224	116
15°	1179	1182	1182	1180	1185	333
25°	1087	1085	1084	1082	1085	500
35°	922	917	919	908	915	574
45°	685	674	667	660	654	527
55°	437	429	407	397	392	391
65°	242	215	186	208	228	245
75°	136	114	100	124	143	144
85°	50	54	52	60	56	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1224.4	1224.4	1224.4	1224.4	1224.4
2.5°	1227.9	1223.5	1225.7	1224.4	1223.9
5°	1223.9	1222.2	1221.3	1219.6	1223.5
7.5°	1216.1	1214.8	1215.2	1215.6	1218.3
10°	1208.2	1206.0	1206.5	1207.3	1208.6
12.5°	1196.0	1194.7	1195.1	1196.0	1199.0
15°	1179.4	1181.5	1181.5	1180.2	1184.6
17.5°	1162.7	1162.3	1164.5	1160.6	1166.7
20°	1139.6	1140.0	1139.6	1140.0	1143.9
22.5°	1113.3	1115.5	1114.2	1114.2	1118.6
25°	1086.7	1085.4	1084.5	1082.3	1085.4
27.5°	1054.8	1052.2	1050.0	1045.6	1047.8
30°	1014.1	1014.6	1008.9	1004.9	1004.1
32.5°	968.7	968.7	963.4	960.4	963.0
35°	921.5	917.1	918.8	907.5	915.3
37.5°	870.3	863.3	859.4	855.4	858.1
40°	811.7	802.6	796.9	789.0	793.4
42.5°	750.1	738.7	731.7	726.1	727.8
45°	685.4	673.6	666.6	660.5	654.4
47.5°	617.2	609.8	606.3	598.4	591.4
50°	550.8	548.2	539.8	533.3	518.9
52.5°	490.0	487.8	474.7	463.8	445.4
55°	437.1	428.8	407.4	396.9	391.7
57.5°	383.4	369.8	344.0	342.7	346.2
60°	331.8	315.2	284.1	291.1	304.7
62.5°	285.0	260.1	230.4	247.0	263.1
65°	242.2	215.1	186.2	208.1	227.7
67.5°	206.8	179.7	149.9	179.2	202.0
70°	178.8	151.2	123.3	156.9	178.3
72.5°	155.6	130.7	107.5	139.4	161.7
75°	136.4	114.1	100.5	124.1	143.4
77.5°	117.1	99.2	96.2	110.6	122.4
80°	95.3	87.0	87.9	97.0	101.4
82.5°	71.3	71.7	73.9	81.3	79.6
85°	49.8	53.8	52.5	60.3	56.4
87.5°	27.5	30.2	28.4	34.5	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)