

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: P293845

Luminaire Tested: **24GR-LD5-34-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293845
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-LD5-34-A125-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2741.0 lumens
Efficiency: N/A
Efficacy: 119.8 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

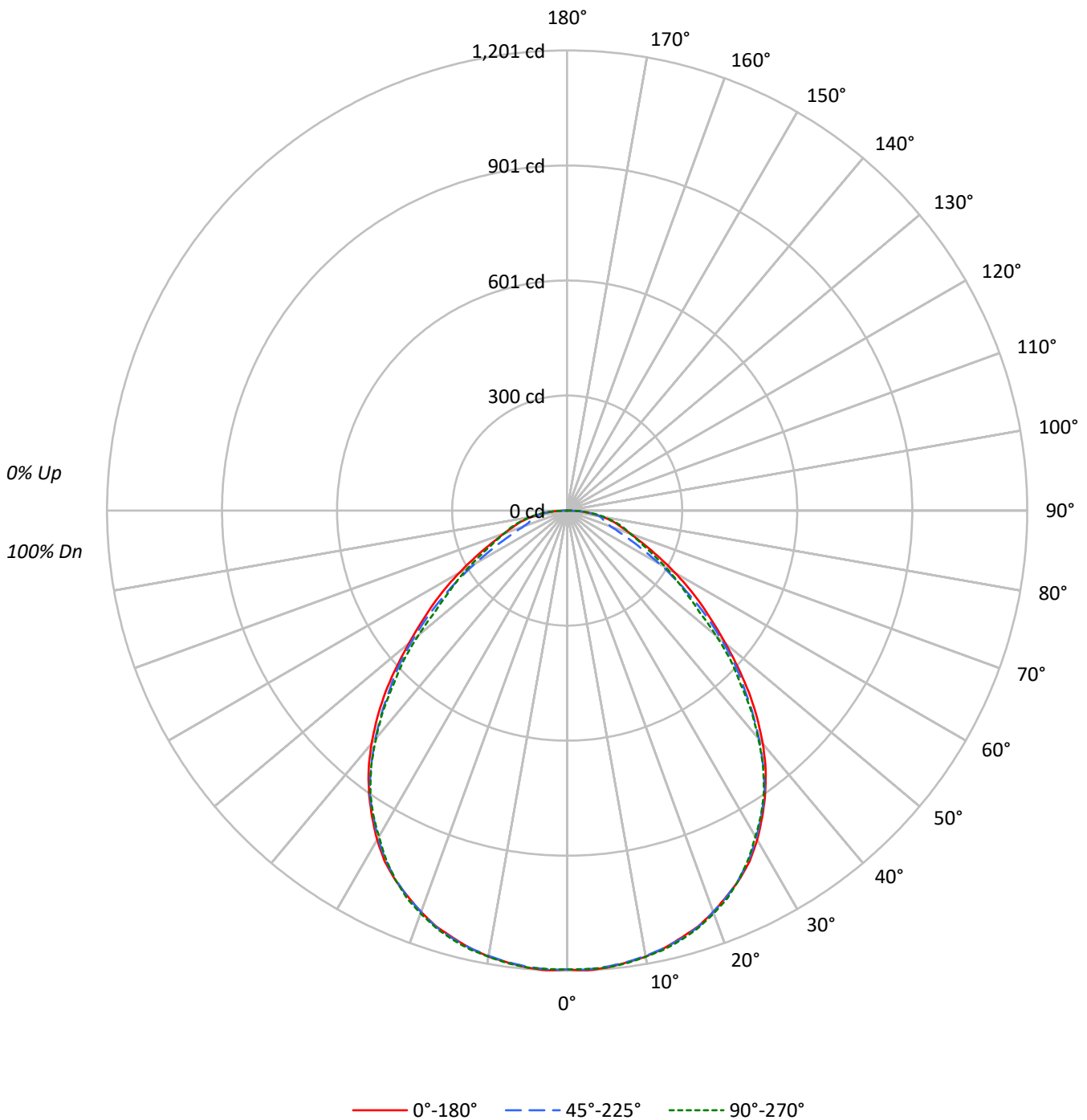
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	1611	1611	1611
5°	1617	1614	1617
10°	1615	1612	1615
15°	1607	1610	1614
20°	1596	1596	1602
25°	1578	1575	1576
30°	1541	1533	1526
35°	1481	1476	1471
40°	1395	1369	1363
45°	1276	1241	1218
50°	1128	1105	1063
55°	1003	935	899
60°	873	748	802
65°	754	580	709
70°	688	474	686
75°	693	511	729
80°	722	666	769
85°	752	792	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	4.1
10°-20°	325.8	11.9
20°-30°	487.7	17.8
30°-40°	557.3	20.3
40°-50°	503.9	18.4
50°-60°	362.5	13.2
60°-70°	210.2	7.7
70°-80°	124.7	4.5
80°-90°	55.2	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°	927.2	33.8
0°-40°	1484.5	54.2
0°-60°	2350.9	85.8
0°-90°	2741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1197	1196	1195	1193	1197	114
15°	1154	1156	1156	1154	1159	326
25°	1063	1062	1061	1059	1062	489
35°	901	897	899	888	895	562
45°	670	659	652	646	640	515
55°	428	420	398	388	383	383
65°	237	210	182	204	223	239
75°	133	112	98	121	140	141
85°	49	53	51	59	55	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1197.7	1197.7	1197.7	1197.7	1197.7
2.5°	1201.1	1196.9	1199.0	1197.7	1197.3
5°	1197.3	1195.6	1194.7	1193.0	1196.9
7.5°	1189.6	1188.3	1188.7	1189.2	1191.7
10°	1181.9	1179.8	1180.2	1181.0	1182.3
12.5°	1169.9	1168.6	1169.1	1169.9	1172.9
15°	1153.7	1155.8	1155.8	1154.5	1158.8
17.5°	1137.4	1137.0	1139.1	1135.3	1141.3
20°	1114.8	1115.2	1114.8	1115.2	1119.0
22.5°	1089.1	1091.2	1090.0	1090.0	1094.2
25°	1063.0	1061.7	1060.9	1058.8	1061.7
27.5°	1031.8	1029.2	1027.1	1022.8	1025.0
30°	992.0	992.5	986.9	983.1	982.2
32.5°	947.6	947.6	942.4	939.4	942.0
35°	901.4	897.1	898.8	887.7	895.4
37.5°	851.4	844.5	840.7	836.8	839.4
40°	794.1	785.1	779.5	771.8	776.1
42.5°	733.8	722.7	715.8	710.3	712.0
45°	670.5	658.9	652.1	646.1	640.1
47.5°	603.8	596.5	593.1	585.4	578.5
50°	538.8	536.2	528.1	521.7	507.6
52.5°	479.3	477.2	464.4	453.7	435.7
55°	427.6	419.5	398.5	388.3	383.1
57.5°	375.0	361.8	336.5	335.2	338.7
60°	324.6	308.3	277.9	284.8	298.0
62.5°	278.8	254.4	225.3	241.6	257.4
65°	236.9	210.4	182.2	203.5	222.8
67.5°	202.3	175.7	146.7	175.3	197.6
70°	174.9	148.0	120.6	153.5	174.5
72.5°	152.2	127.9	105.2	136.4	158.2
75°	133.4	111.6	98.3	121.4	140.3
77.5°	114.6	97.1	94.1	108.2	119.7
80°	93.2	85.1	85.9	94.9	99.2
82.5°	69.7	70.1	72.3	79.5	77.8
85°	48.7	52.6	51.3	59.0	55.2
87.5°	26.9	29.5	27.8	33.8	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)