

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: P293841

Luminaire Tested: **24GR-LD5-30-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293841
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-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2823.0 lumens
Efficiency: N/A
Efficacy: 138.0 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

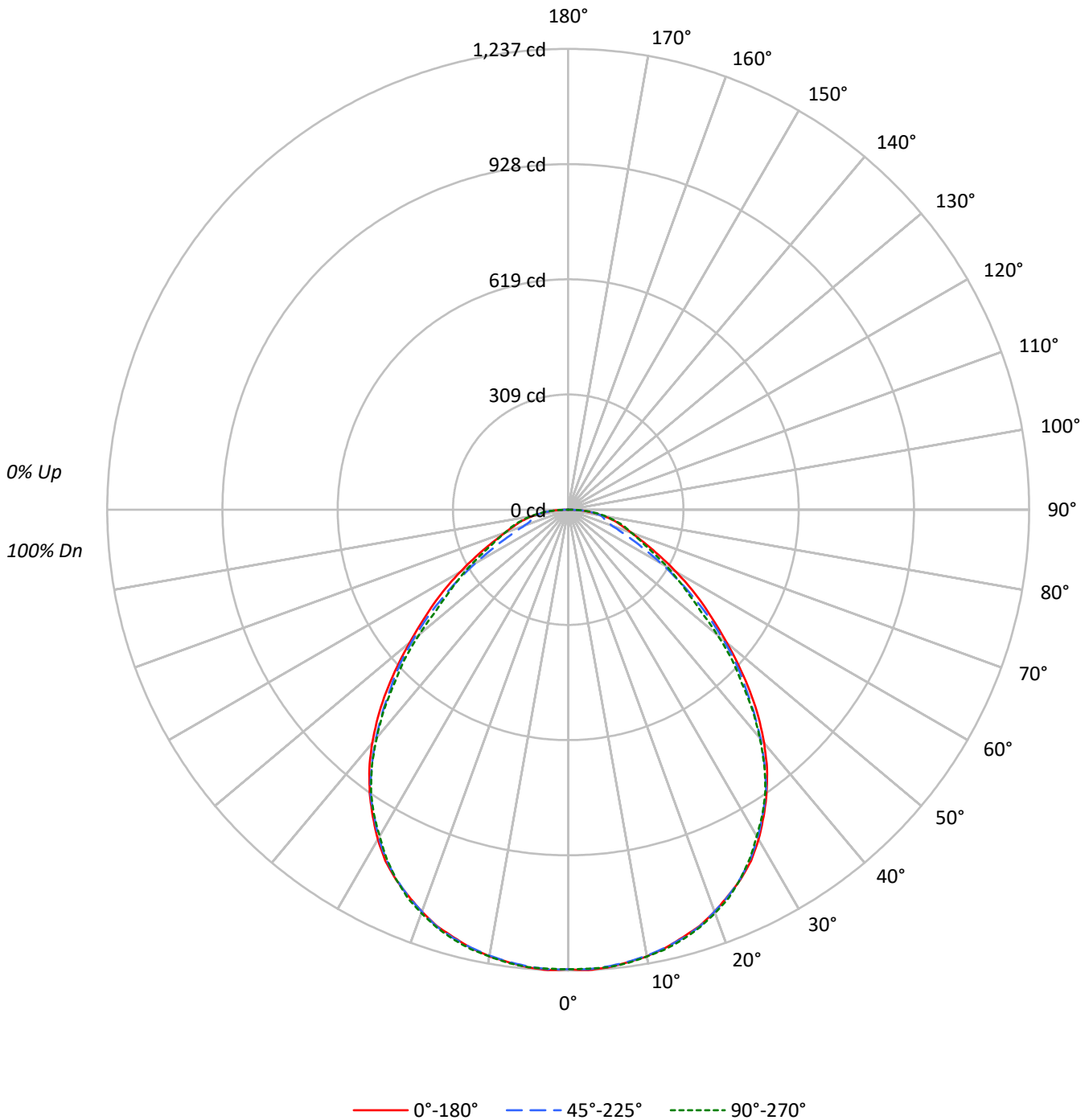
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1660	1660	1660
5°	1665	1662	1665
10°	1663	1661	1664
15°	1655	1658	1662
20°	1644	1644	1650
25°	1625	1622	1623
30°	1587	1579	1572
35°	1525	1520	1515
40°	1436	1410	1404
45°	1314	1278	1255
50°	1162	1138	1094
55°	1033	963	926
60°	900	770	826
65°	777	597	730
70°	709	489	707
75°	714	527	751
80°	744	686	792
85°	775	815	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	4.1
10°-20°	335.6	11.9
20°-30°	502.3	17.8
30°-40°	574.0	20.3
40°-50°	519.0	18.4
50°-60°	373.4	13.2
60°-70°	216.5	7.7
70°-80°	128.4	4.5
80°-90°	56.9	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°	954.9	33.8
0°-40°	1529.0	54.2
0°-60°	2421.3	85.8
0°-90°	2823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2823.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1233	1231	1230	1229	1233	117
15°	1188	1190	1190	1189	1194	335
25°	1095	1094	1093	1090	1094	503
35°	928	924	926	914	922	579
45°	690	679	672	665	659	530
55°	440	432	410	400	395	394
65°	244	217	188	210	229	246
75°	137	115	101	125	144	145
85°	50	54	53	61	57	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1233.6	1233.6	1233.6	1233.6	1233.6
2.5°	1237.1	1232.7	1234.9	1233.6	1233.1
5°	1233.1	1231.4	1230.5	1228.7	1232.7
7.5°	1225.2	1223.9	1224.3	1224.7	1227.4
10°	1217.3	1215.1	1215.5	1216.4	1217.7
12.5°	1204.9	1203.6	1204.0	1204.9	1208.0
15°	1188.2	1190.4	1190.4	1189.1	1193.5
17.5°	1171.5	1171.0	1173.2	1169.3	1175.4
20°	1148.1	1148.6	1148.1	1148.6	1152.5
22.5°	1121.7	1123.9	1122.6	1122.6	1127.0
25°	1094.8	1093.5	1092.6	1090.4	1093.5
27.5°	1062.7	1060.0	1057.8	1053.4	1055.6
30°	1021.7	1022.2	1016.4	1012.5	1011.6
32.5°	975.9	975.9	970.6	967.6	970.2
35°	928.4	924.0	925.7	914.3	922.2
37.5°	876.8	869.8	865.8	861.9	864.5
40°	817.8	808.6	802.8	794.9	799.3
42.5°	755.7	744.3	737.2	731.5	733.3
45°	690.5	678.7	671.6	665.4	659.3
47.5°	621.8	614.4	610.8	602.9	595.9
50°	554.9	552.3	543.9	537.3	522.8
52.5°	493.7	491.5	478.3	467.3	448.8
55°	440.4	432.0	410.5	399.9	394.6
57.5°	386.2	372.6	346.6	345.3	348.8
60°	334.3	317.5	286.3	293.3	307.0
62.5°	287.1	262.0	232.1	248.8	265.1
65°	244.0	216.7	187.6	209.6	229.4
67.5°	208.3	181.0	151.1	180.6	203.5
70°	180.1	152.4	124.2	158.1	179.7
72.5°	156.8	131.7	108.3	140.5	162.9
75°	137.4	114.9	101.3	125.1	144.5
77.5°	118.0	100.0	96.9	111.4	123.3
80°	96.0	87.6	88.5	97.8	102.2
82.5°	71.8	72.2	74.4	81.9	80.2
85°	50.2	54.2	52.8	60.8	56.8
87.5°	27.7	30.4	28.6	34.8	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)