

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: P293594

Luminaire Tested: **24GR-LD5-34-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293594
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-LD5-34-A-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2878.0 lumens
Efficiency: N/A
Efficacy: 126.3 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

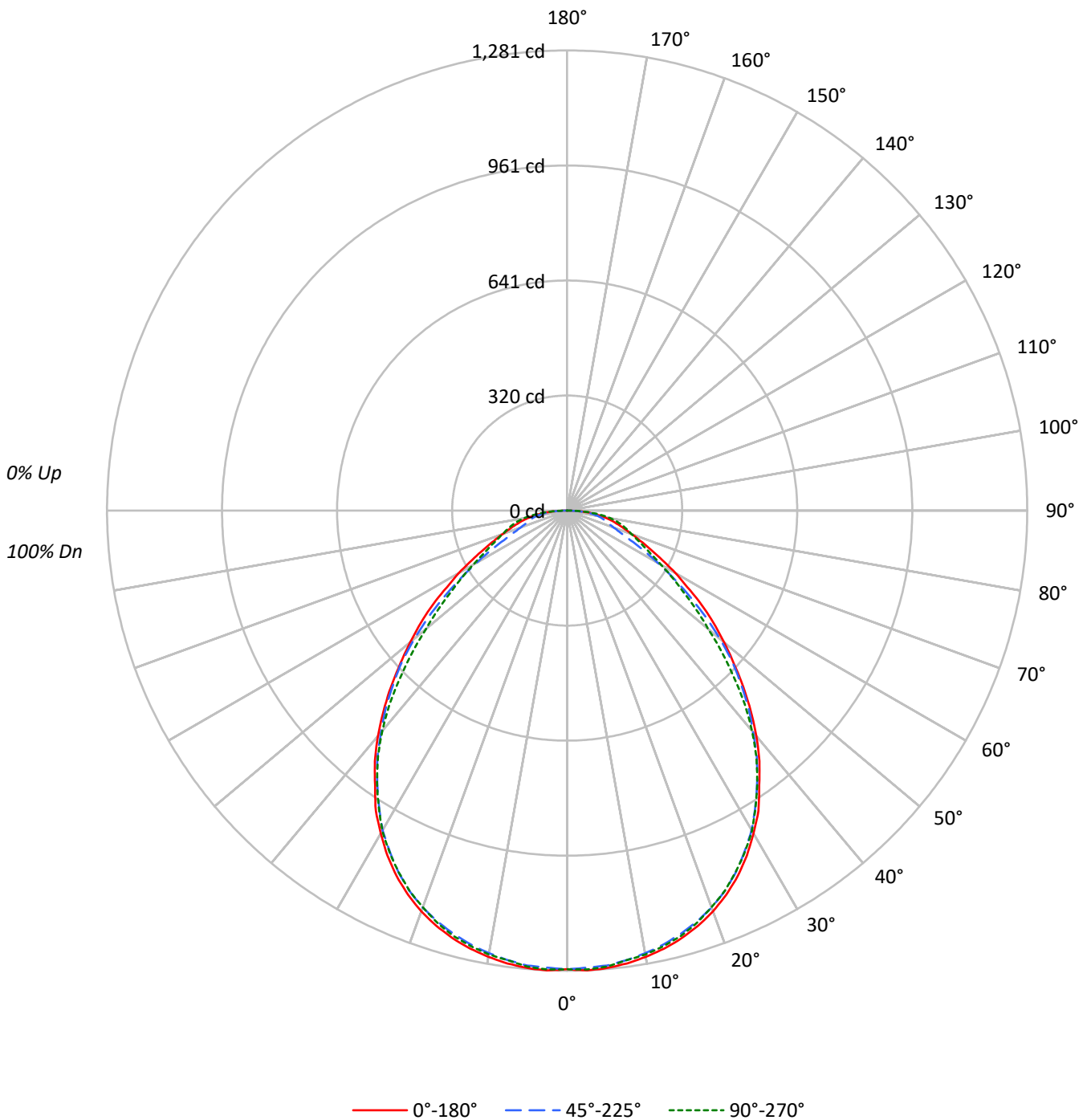
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1718	1718	1718
5°	1727	1717	1721
10°	1723	1709	1714
15°	1717	1699	1707
20°	1700	1683	1683
25°	1667	1650	1648
30°	1612	1596	1599
35°	1532	1514	1516
40°	1440	1415	1407
45°	1320	1302	1250
50°	1193	1160	1073
55°	1071	975	925
60°	938	785	813
65°	818	617	749
70°	749	539	749
75°	749	573	825
80°	813	675	941
85°	892	763	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	4.2
10°-20°	345.1	12.0
20°-30°	511.7	17.8
30°-40°	577.3	20.1
40°-50°	522.8	18.2
50°-60°	377.2	13.1
60°-70°	225.2	7.8
70°-80°	139.2	4.8
80°-90°	58.6	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°	977.7	34.0
0°-40°	1555.0	54.0
0°-60°	2455.0	85.3
0°-90°	2878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1278	1276	1271	1270	1274	121
15°	1232	1225	1220	1220	1225	347
25°	1123	1117	1111	1107	1110	516
35°	932	931	922	922	923	583
45°	694	689	684	667	657	535
55°	457	442	416	395	394	408
65°	257	226	194	220	235	259
75°	144	125	110	137	159	154
85°	58	51	49	64	65	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1276.9	1276.9	1276.9	1276.9	1276.9
2.5°	1281.4	1277.8	1273.4	1276.0	1278.3
5°	1278.3	1276.5	1271.2	1269.8	1274.3
7.5°	1271.6	1267.2	1262.3	1264.5	1262.7
10°	1261.4	1257.4	1251.1	1251.6	1254.7
12.5°	1248.9	1244.0	1237.4	1239.1	1241.8
15°	1232.5	1224.9	1220.0	1220.5	1225.4
17.5°	1211.6	1205.8	1199.6	1200.9	1203.1
20°	1187.6	1184.5	1175.6	1172.9	1175.1
22.5°	1157.3	1151.6	1146.7	1145.3	1145.8
25°	1123.1	1116.9	1111.1	1107.1	1110.2
27.5°	1083.1	1077.7	1070.2	1068.9	1071.5
30°	1037.7	1033.7	1027.1	1025.3	1029.3
32.5°	991.5	984.8	975.5	975.5	976.4
35°	932.4	931.0	921.7	922.1	923.0
37.5°	879.0	872.8	867.4	862.1	864.8
40°	819.9	812.8	805.6	802.1	800.8
42.5°	756.3	751.0	747.8	734.9	731.8
45°	693.6	689.2	684.3	667.4	657.1
47.5°	629.6	628.7	624.7	594.9	584.7
50°	570.0	568.7	554.4	522.9	512.6
52.5°	513.5	504.6	486.0	454.8	453.1
55°	456.6	442.4	415.7	395.3	394.4
57.5°	396.6	379.7	352.6	341.5	347.2
60°	348.6	322.8	291.7	293.0	302.3
62.5°	298.8	269.9	239.2	252.5	263.7
65°	257.0	226.3	193.9	220.1	235.2
67.5°	220.5	192.1	161.0	196.1	210.7
70°	190.3	167.2	136.9	173.8	190.3
72.5°	166.3	144.9	121.4	156.1	175.2
75°	144.1	124.9	110.3	137.4	158.7
77.5°	124.9	106.3	99.6	121.4	142.3
80°	104.9	88.0	87.1	105.8	121.4
82.5°	81.8	70.2	70.2	88.5	97.8
85°	57.8	50.7	49.4	64.5	65.4
87.5°	29.8	28.5	25.8	33.8	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)