

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: P293094

Luminaire Tested: **24GR-LD5-34-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-F1-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3227.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

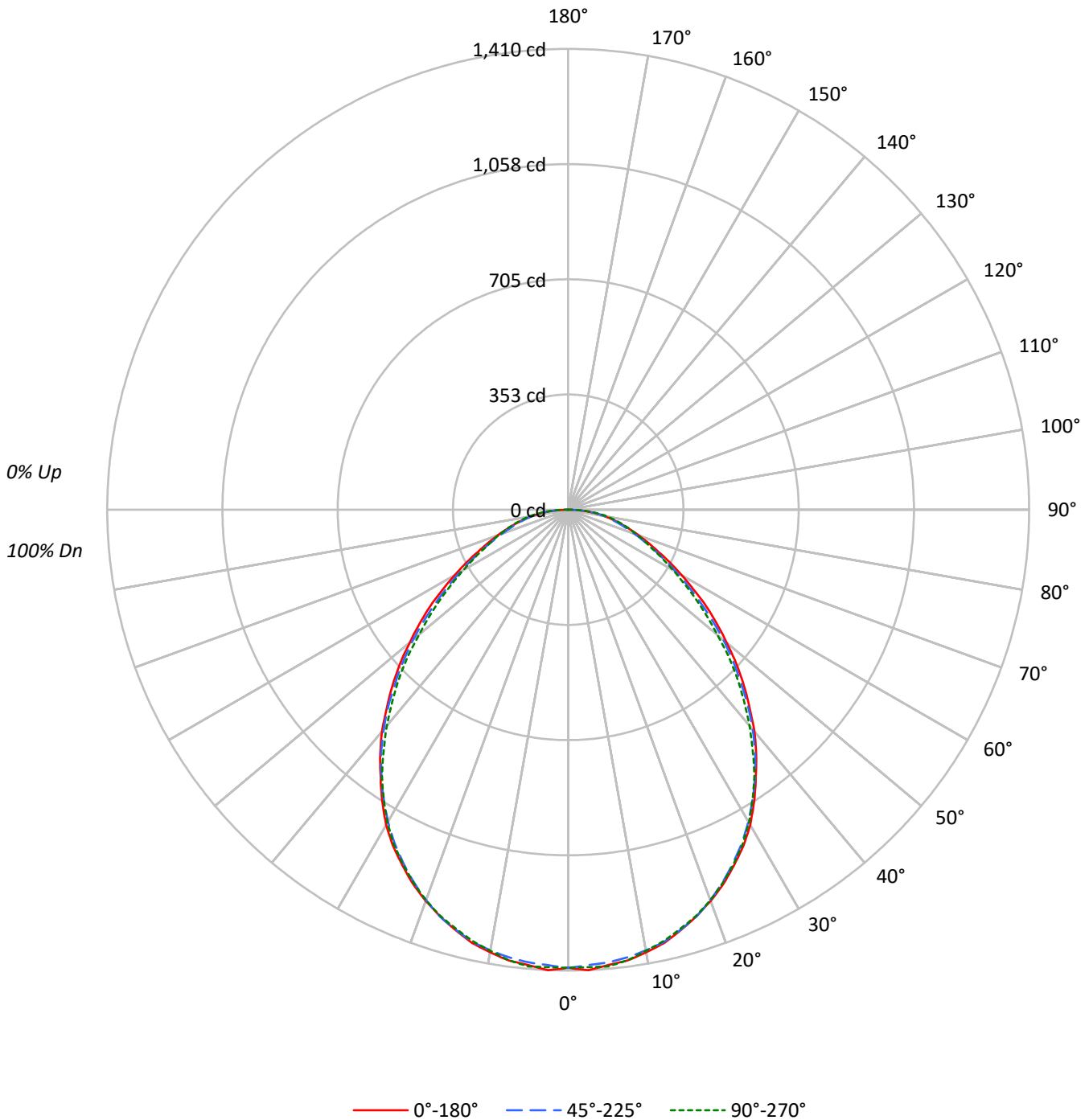
Input Watts (W): 23.529
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1886	1886	1886
5°	1889	1878	1894
10°	1879	1871	1872
15°	1855	1853	1849
20°	1824	1820	1820
25°	1782	1772	1776
30°	1730	1712	1718
35°	1643	1635	1631
40°	1556	1542	1515
45°	1446	1421	1393
50°	1325	1296	1247
55°	1210	1155	1116
60°	1078	1026	999
65°	970	920	907
70°	901	846	880
75°	861	823	893
80°	862	862	954
85°	894	905	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	4.1
10°-20°	374.6	11.6
20°-30°	549.8	17.0
30°-40°	621.6	19.3
40°-50°	574.5	17.8
50°-60°	442.6	13.7
60°-70°	293.1	9.1
70°-80°	174.5	5.4
80°-90°	63.9	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°	1056.8	32.7
0°-40°	1678.4	52.0
0°-60°	2695.5	83.5
0°-90°	3227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1402	1402	1402	1402	1402	
5°	1398	1398	1390	1391	1402	133
15°	1332	1329	1330	1330	1327	375
25°	1200	1197	1193	1192	1196	553
35°	1000	999	996	991	993	626
45°	760	755	747	734	732	585
55°	516	505	492	479	476	460
65°	305	300	289	286	285	306
75°	166	162	158	166	172	177
85°	58	55	59	65	65	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1401.7	1401.7	1401.7	1401.7	1401.7
2.5°	1410.4	1403.1	1395.1	1395.1	1401.1
5°	1398.4	1398.4	1390.4	1391.1	1402.4
7.5°	1391.1	1387.1	1381.8	1381.8	1390.4
10°	1375.1	1371.8	1369.1	1367.8	1370.4
12.5°	1357.8	1352.5	1354.5	1352.5	1351.8
15°	1331.8	1329.2	1330.5	1329.8	1327.2
17.5°	1303.9	1302.6	1305.2	1300.6	1302.6
20°	1273.9	1269.9	1271.3	1268.6	1271.3
22.5°	1240.0	1237.3	1234.0	1230.7	1236.0
25°	1200.1	1196.7	1193.4	1192.1	1196.1
27.5°	1160.1	1154.8	1150.1	1148.8	1154.8
30°	1113.5	1107.5	1102.2	1100.9	1105.5
32.5°	1058.3	1057.0	1050.3	1047.6	1049.6
35°	1000.4	999.1	995.7	991.1	993.1
37.5°	945.1	944.5	939.8	931.8	926.5
40°	885.9	881.2	877.9	866.6	862.6
42.5°	820.7	819.3	813.4	800.7	796.0
45°	760.1	754.8	746.8	733.5	732.1
47.5°	697.5	690.2	682.9	666.3	665.6
50°	633.0	627.7	619.0	602.4	595.7
52.5°	573.1	565.8	553.8	537.8	534.5
55°	515.8	505.2	492.5	479.2	475.9
57.5°	454.6	449.9	434.6	424.0	420.0
60°	400.7	396.7	381.4	371.4	371.4
62.5°	352.1	346.1	332.8	326.1	326.1
65°	304.8	300.2	288.9	286.2	284.9
67.5°	264.2	258.2	250.3	249.6	252.9
70°	229.0	221.6	215.0	221.6	223.6
72.5°	195.7	191.0	185.0	193.7	197.7
75°	165.7	161.7	158.4	165.7	171.7
77.5°	138.4	134.4	134.4	142.4	147.8
80°	111.2	108.5	111.2	117.8	123.1
82.5°	85.2	83.2	86.5	93.2	96.5
85°	57.9	54.6	58.6	64.6	65.2
87.5°	27.3	26.6	29.3	33.3	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)