

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: P293095

Luminaire Tested: **24GR-LD5-34-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293095
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3277.0 lumens
Efficiency: N/A
Efficacy: 138.7 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

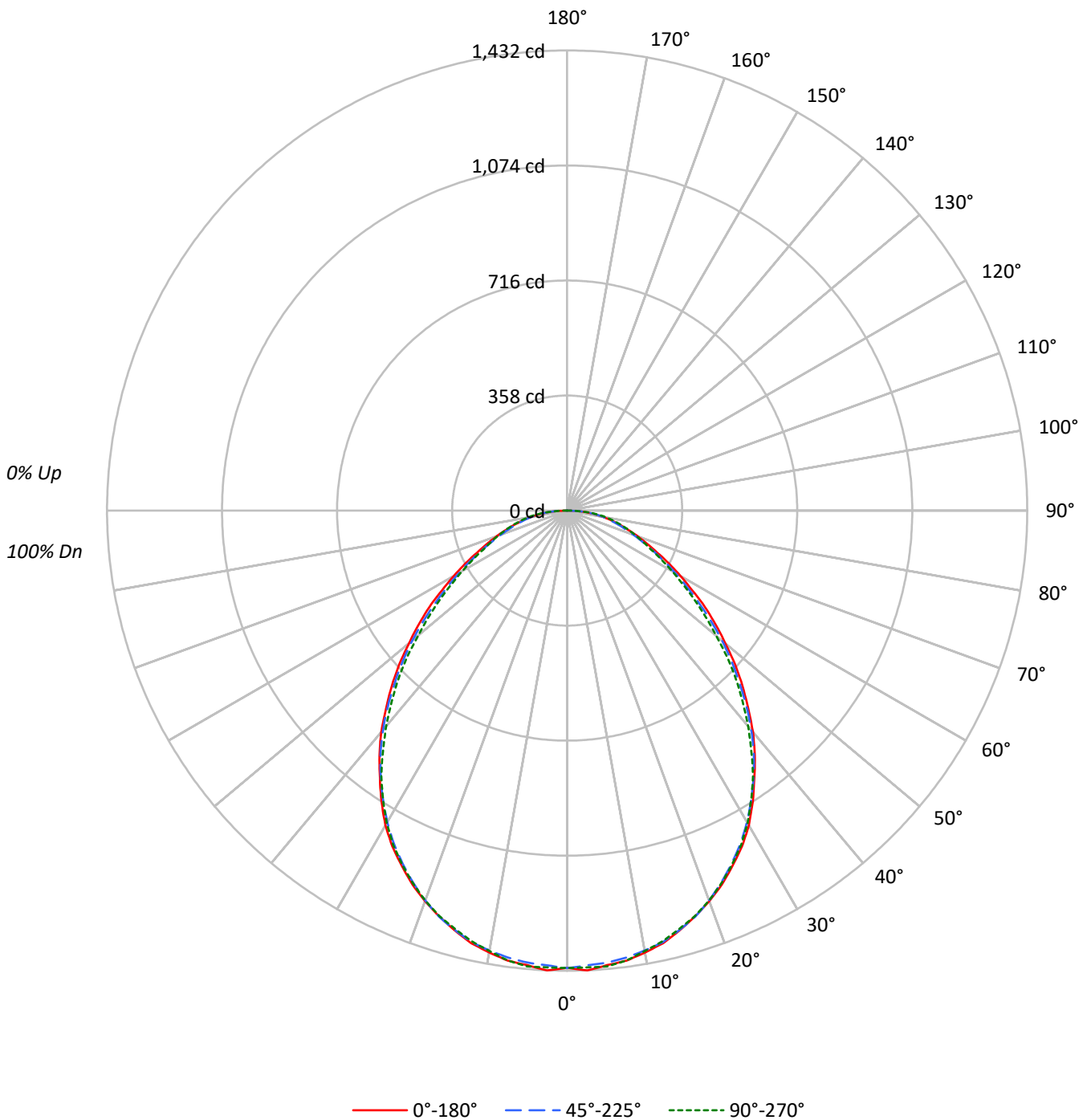
Input Watts (W): 23.622
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1915	1915	1915
5°	1918	1907	1923
10°	1908	1899	1901
15°	1884	1882	1877
20°	1852	1849	1849
25°	1809	1799	1803
30°	1757	1739	1744
35°	1669	1661	1656
40°	1580	1566	1539
45°	1469	1443	1415
50°	1346	1316	1266
55°	1229	1173	1134
60°	1095	1042	1015
65°	986	934	921
70°	915	859	893
75°	875	836	907
80°	875	875	969
85°	908	919	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	4.1
10°-20°	380.4	11.6
20°-30°	558.3	17.0
30°-40°	631.2	19.3
40°-50°	583.4	17.8
50°-60°	449.5	13.7
60°-70°	297.6	9.1
70°-80°	177.2	5.4
80°-90°	64.9	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°	1073.2	32.7
0°-40°	1704.4	52.0
0°-60°	2737.3	83.5
0°-90°	3277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1420	1420	1412	1413	1424	135
15°	1352	1350	1351	1350	1348	381
25°	1219	1215	1212	1210	1215	561
35°	1016	1014	1011	1006	1008	636
45°	772	766	758	745	744	595
55°	524	513	500	487	483	467
65°	310	305	293	291	289	310
75°	168	164	161	168	174	179
85°	59	55	60	66	66	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423.5	1423.5	1423.5	1423.5	1423.5
2.5°	1432.2	1424.8	1416.7	1416.7	1422.8
5°	1420.1	1420.1	1412.0	1412.6	1424.1
7.5°	1412.6	1408.6	1403.2	1403.2	1412.0
10°	1396.4	1393.0	1390.3	1389.0	1391.7
12.5°	1378.8	1373.4	1375.5	1373.4	1372.8
15°	1352.5	1349.8	1351.1	1350.5	1347.8
17.5°	1324.1	1322.7	1325.4	1320.7	1322.7
20°	1293.7	1289.6	1291.0	1288.3	1291.0
22.5°	1259.2	1256.5	1253.1	1249.7	1255.2
25°	1218.7	1215.3	1211.9	1210.5	1214.6
27.5°	1178.1	1172.7	1168.0	1166.6	1172.7
30°	1130.8	1124.7	1119.3	1117.9	1122.7
32.5°	1074.7	1073.3	1066.6	1063.9	1065.9
35°	1015.9	1014.5	1011.2	1006.4	1008.4
37.5°	959.8	959.1	954.4	946.3	940.9
40°	899.6	894.9	891.5	880.0	876.0
42.5°	833.4	832.0	826.0	813.1	808.4
45°	771.9	766.5	758.4	744.8	743.5
47.5°	708.3	700.9	693.5	676.6	675.9
50°	642.8	637.4	628.6	611.7	604.9
52.5°	582.0	574.5	562.4	546.1	542.7
55°	523.8	513.0	500.2	486.6	483.3
57.5°	461.6	456.9	441.4	430.6	426.5
60°	406.9	402.8	387.3	377.2	377.2
62.5°	357.6	351.5	338.0	331.2	331.2
65°	309.6	304.8	293.3	290.6	289.3
67.5°	268.3	262.3	254.1	253.5	256.8
70°	232.5	225.1	218.3	225.1	227.1
72.5°	198.7	194.0	187.9	196.7	200.7
75°	168.3	164.2	160.9	168.3	174.4
77.5°	140.6	136.5	136.5	144.6	150.1
80°	112.9	110.2	112.9	119.6	125.0
82.5°	86.5	84.5	87.9	94.6	98.0
85°	58.8	55.4	59.5	65.6	66.2
87.5°	27.7	27.0	29.7	33.8	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)