

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: P292965

Luminaire Tested: **24GR-LD5-34-F1-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292965
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-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3410.0 lumens
Efficiency: N/A
Efficacy: 147.8 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

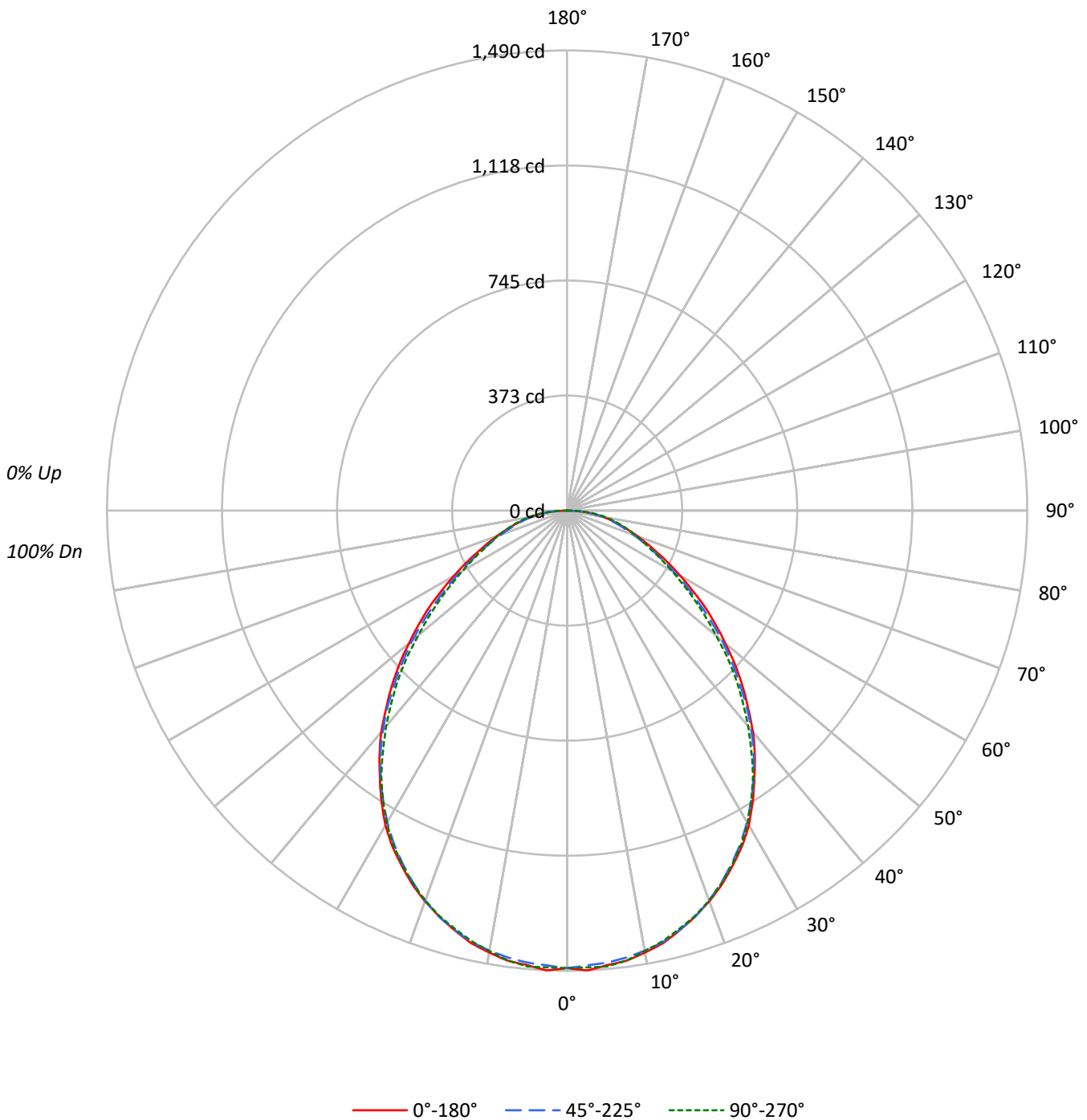
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1993	1993	1993
5°	1996	1984	2001
10°	1985	1977	1979
15°	1960	1958	1953
20°	1928	1924	1924
25°	1883	1872	1876
30°	1828	1810	1815
35°	1736	1728	1724
40°	1644	1629	1601
45°	1528	1502	1472
50°	1400	1369	1318
55°	1279	1221	1180
60°	1139	1084	1056
65°	1025	972	958
70°	952	894	930
75°	910	870	944
80°	910	910	1008
85°	945	956	1064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	4.1
10°-20°	395.9	11.6
20°-30°	581.0	17.0
30°-40°	656.8	19.3
40°-50°	607.1	17.8
50°-60°	467.7	13.7
60°-70°	309.7	9.1
70°-80°	184.4	5.4
80°-90°	67.5	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°	1116.8	32.7
0°-40°	1773.6	52.0
0°-60°	2848.4	83.5
0°-90°	3410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1481	1481	1481	1481	1481	
5°	1478	1478	1469	1470	1482	140
15°	1407	1405	1406	1405	1402	397
25°	1268	1265	1261	1260	1264	584
35°	1057	1056	1052	1047	1049	661
45°	803	798	789	775	774	619
55°	545	534	520	506	503	486
65°	322	317	305	302	301	323
75°	175	171	167	175	182	187
85°	61	58	62	68	69	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1490.4	1482.6	1474.2	1474.2	1480.5
5°	1477.7	1477.7	1469.3	1470.0	1481.9
7.5°	1470.0	1465.7	1460.1	1460.1	1469.3
10°	1453.1	1449.6	1446.8	1445.4	1448.2
12.5°	1434.8	1429.2	1431.3	1429.2	1428.5
15°	1407.4	1404.6	1406.0	1405.3	1402.4
17.5°	1377.8	1376.4	1379.2	1374.3	1376.4
20°	1346.2	1342.0	1343.4	1340.6	1343.4
22.5°	1310.3	1307.5	1304.0	1300.5	1306.1
25°	1268.1	1264.6	1261.1	1259.7	1263.9
27.5°	1225.9	1220.3	1215.4	1214.0	1220.3
30°	1176.7	1170.3	1164.7	1163.3	1168.2
32.5°	1118.3	1116.9	1109.9	1107.0	1109.2
35°	1057.1	1055.7	1052.2	1047.3	1049.4
37.5°	998.7	998.0	993.1	984.7	979.0
40°	936.1	931.2	927.7	915.7	911.5
42.5°	867.2	865.8	859.5	846.1	841.2
45°	803.2	797.6	789.1	775.1	773.7
47.5°	737.1	729.4	721.6	704.0	703.3
50°	668.9	663.2	654.1	636.5	629.5
52.5°	605.6	597.8	585.2	568.3	564.8
55°	545.1	533.8	520.5	506.4	502.9
57.5°	480.4	475.5	459.3	448.0	443.8
60°	423.4	419.2	403.0	392.5	392.5
62.5°	372.1	365.7	351.7	344.6	344.6
65°	322.1	317.2	305.2	302.4	301.0
67.5°	279.2	272.9	264.5	263.8	267.3
70°	241.9	234.2	227.2	234.2	236.3
72.5°	206.8	201.9	195.5	204.7	208.9
75°	175.1	170.9	167.4	175.1	181.5
77.5°	146.3	142.1	142.1	150.5	156.1
80°	117.5	114.6	117.5	124.5	130.1
82.5°	90.0	87.9	91.4	98.5	102.0
85°	61.2	57.7	61.9	68.2	68.9
87.5°	28.8	28.1	30.9	35.2	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)