

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: P292974

Luminaire Tested: **24GR-LD5-38-F1-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292974
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-LD5-38-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: 3758.0 lumens
Efficiency: N/A
Efficacy: 147.5 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

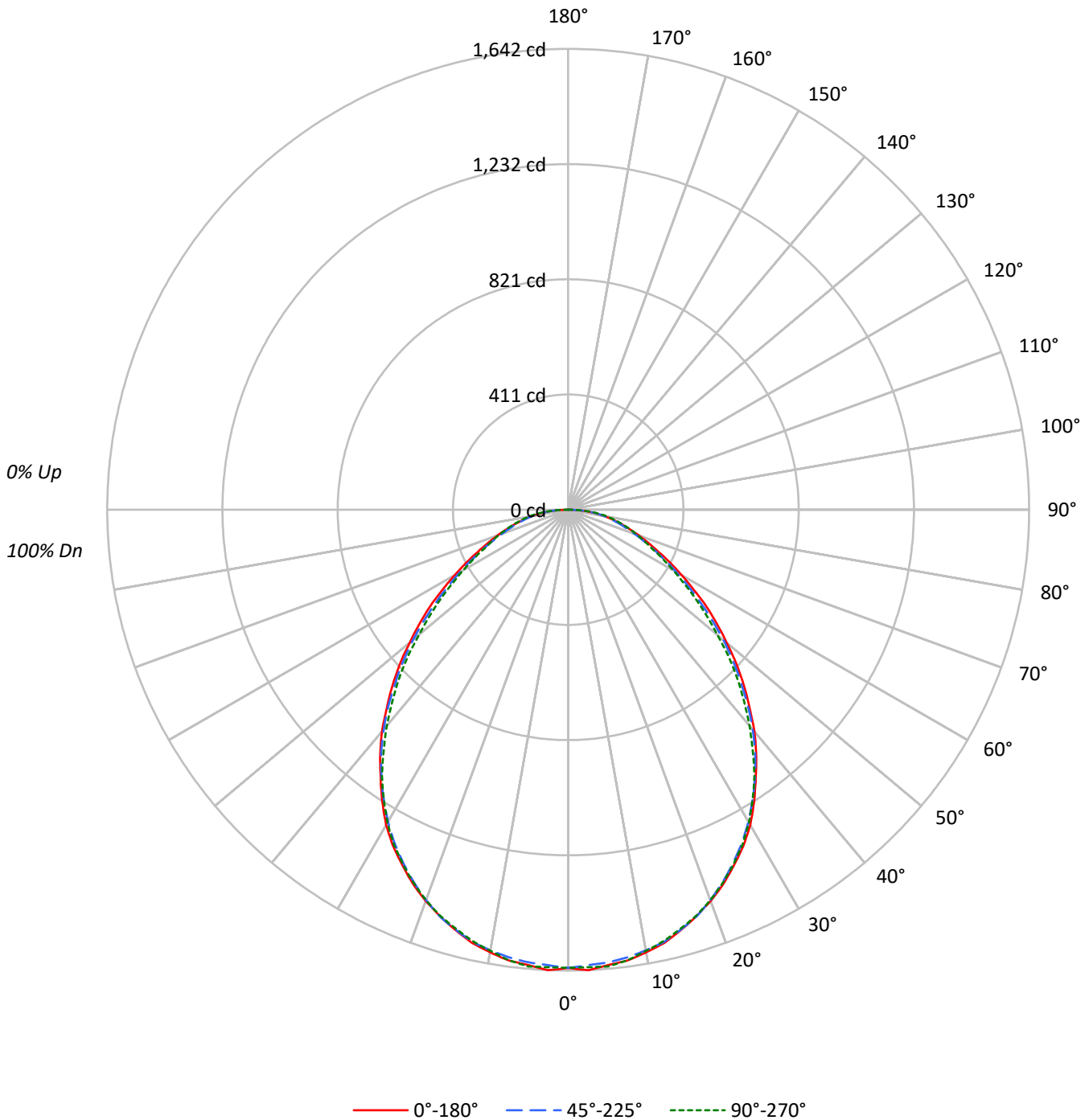
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2196	2196	2196
5°	2199	2187	2206
10°	2188	2178	2181
15°	2160	2158	2153
20°	2124	2120	2120
25°	2075	2063	2068
30°	2015	1994	2000
35°	1914	1905	1900
40°	1812	1796	1764
45°	1684	1655	1622
50°	1543	1509	1452
55°	1409	1346	1300
60°	1256	1195	1164
65°	1130	1071	1056
70°	1049	985	1024
75°	1003	959	1040
80°	1003	1003	1111
85°	1041	1053	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	4.1
10°-20°	436.3	11.6
20°-30°	640.3	17.0
30°-40°	723.9	19.3
40°-50°	669.0	17.8
50°-60°	515.4	13.7
60°-70°	341.3	9.1
70°-80°	203.2	5.4
80°-90°	74.4	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°	1230.7	32.7
0°-40°	1954.6	52.0
0°-60°	3139.1	83.5
0°-90°	3758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1628	1628	1619	1620	1633	155
15°	1551	1548	1549	1549	1546	437
25°	1398	1394	1390	1388	1393	643
35°	1165	1163	1160	1154	1156	729
45°	885	879	870	854	853	682
55°	601	588	574	558	554	536
65°	355	350	336	333	332	356
75°	193	188	184	193	200	206
85°	67	64	68	75	76	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1632.4	1632.4	1632.4	1632.4	1632.4
2.5°	1642.5	1633.9	1624.6	1624.6	1631.6
5°	1628.5	1628.5	1619.2	1620.0	1633.2
7.5°	1620.0	1615.3	1609.1	1609.1	1619.2
10°	1601.4	1597.5	1594.4	1592.9	1596.0
12.5°	1581.2	1575.0	1577.4	1575.0	1574.3
15°	1551.0	1547.9	1549.4	1548.7	1545.6
17.5°	1518.4	1516.9	1520.0	1514.6	1516.9
20°	1483.6	1478.9	1480.5	1477.4	1480.5
22.5°	1444.0	1440.9	1437.1	1433.2	1439.4
25°	1397.5	1393.7	1389.8	1388.2	1392.9
27.5°	1351.0	1344.8	1339.4	1337.8	1344.8
30°	1296.8	1289.8	1283.6	1282.0	1287.5
32.5°	1232.4	1230.9	1223.1	1220.0	1222.4
35°	1165.0	1163.4	1159.6	1154.1	1156.5
37.5°	1100.7	1099.9	1094.5	1085.2	1079.0
40°	1031.7	1026.2	1022.4	1009.2	1004.5
42.5°	955.7	954.2	947.2	932.5	927.0
45°	885.2	879.0	869.7	854.2	852.6
47.5°	812.3	803.8	795.3	775.9	775.1
50°	737.1	730.9	720.9	701.5	693.7
52.5°	667.4	658.8	644.9	626.3	622.4
55°	600.7	588.3	573.6	558.1	554.2
57.5°	529.4	524.0	506.1	493.7	489.1
60°	466.6	462.0	444.1	432.5	432.5
62.5°	410.0	403.1	387.6	379.8	379.8
65°	355.0	349.6	336.4	333.3	331.7
67.5°	307.7	300.7	291.4	290.7	294.5
70°	266.6	258.1	250.4	258.1	260.4
72.5°	227.9	222.5	215.5	225.6	230.2
75°	193.0	188.4	184.5	193.0	200.0
77.5°	161.2	156.6	156.6	165.9	172.1
80°	129.4	126.3	129.4	137.2	143.4
82.5°	99.2	96.9	100.8	108.5	112.4
85°	67.4	63.6	68.2	75.2	76.0
87.5°	31.8	31.0	34.1	38.8	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)