

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: P292962

Luminaire Tested: **24GR-LD5-30-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292962
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-LD5-30-F1-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3186.0 lumens
Efficiency: N/A
Efficacy: 152.3 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

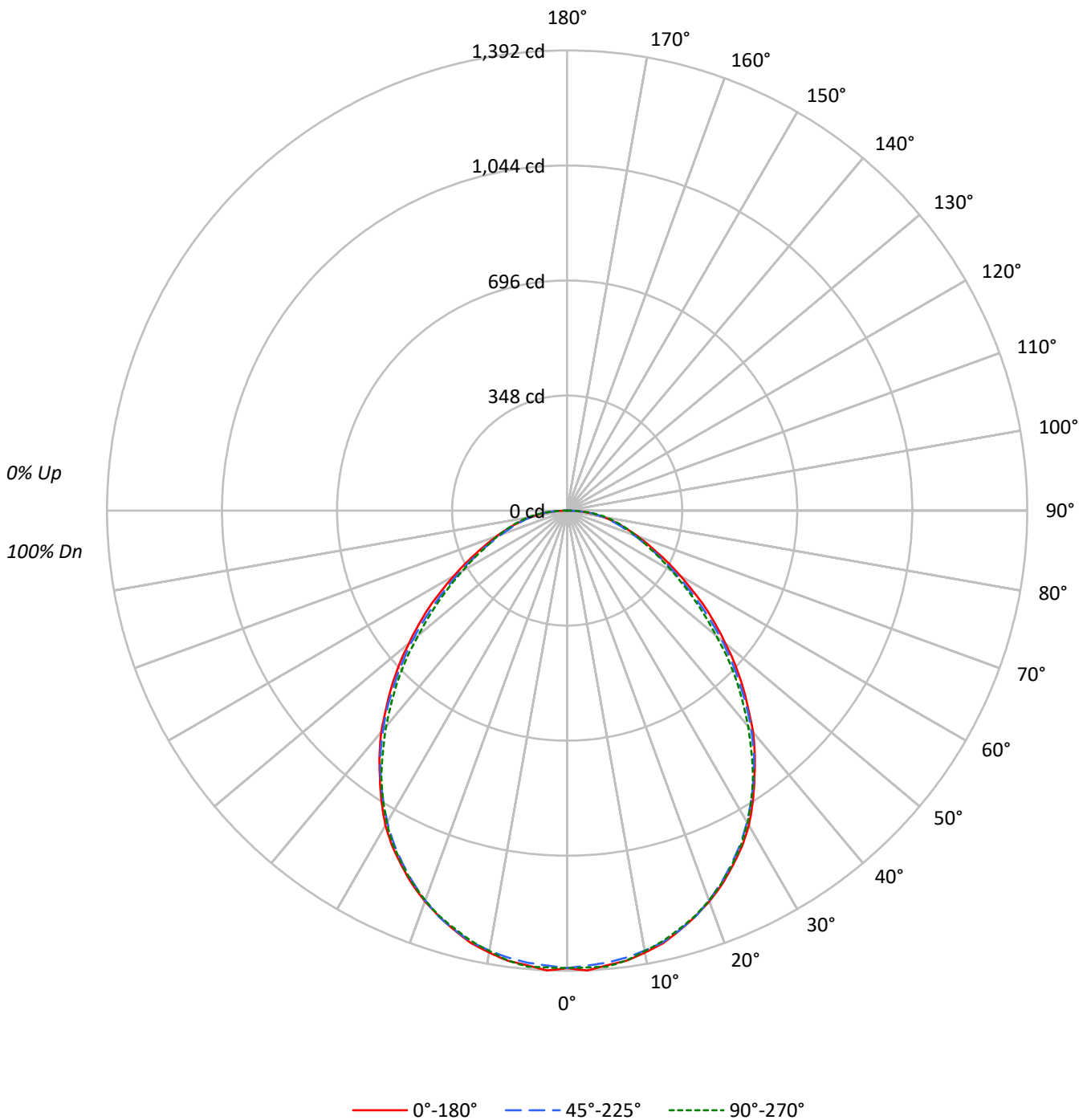
Input Watts (W): 20.925
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1862	1862	1862
5°	1865	1854	1870
10°	1855	1847	1849
15°	1832	1830	1825
20°	1801	1797	1797
25°	1759	1749	1753
30°	1708	1691	1696
35°	1622	1615	1610
40°	1536	1522	1496
45°	1428	1403	1375
50°	1308	1279	1231
55°	1195	1141	1102
60°	1065	1013	987
65°	958	908	896
70°	889	835	869
75°	850	813	881
80°	850	850	942
85°	883	892	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	4.1
10°-20°	369.9	11.6
20°-30°	542.8	17.0
30°-40°	613.7	19.3
40°-50°	567.2	17.8
50°-60°	437.0	13.7
60°-70°	289.4	9.1
70°-80°	172.2	5.4
80°-90°	63.1	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°	1043.4	32.7
0°-40°	1657.1	52.0
0°-60°	2661.3	83.5
0°-90°	3186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1381	1381	1373	1373	1385	131
15°	1315	1312	1314	1313	1310	371
25°	1185	1182	1178	1177	1181	546
35°	988	986	983	978	980	618
45°	750	745	737	724	723	578
55°	509	499	486	473	470	454
65°	301	296	285	283	281	302
75°	164	160	156	164	170	174
85°	57	54	58	64	64	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1383.9	1383.9	1383.9	1383.9	1383.9
2.5°	1392.5	1385.2	1377.4	1377.4	1383.3
5°	1380.6	1380.6	1372.8	1373.4	1384.6
7.5°	1373.4	1369.5	1364.2	1364.2	1372.8
10°	1357.6	1354.4	1351.7	1350.4	1353.0
12.5°	1340.6	1335.3	1337.3	1335.3	1334.6
15°	1314.9	1312.3	1313.6	1313.0	1310.3
17.5°	1287.3	1286.0	1288.6	1284.0	1286.0
20°	1257.8	1253.8	1255.1	1252.5	1255.1
22.5°	1224.2	1221.6	1218.3	1215.0	1220.3
25°	1184.8	1181.5	1178.2	1176.9	1180.9
27.5°	1145.4	1140.1	1135.5	1134.2	1140.1
30°	1099.4	1093.5	1088.2	1086.9	1091.5
32.5°	1044.8	1043.5	1037.0	1034.3	1036.3
35°	987.7	986.4	983.1	978.5	980.4
37.5°	933.1	932.5	927.9	920.0	914.7
40°	874.6	870.0	866.8	855.6	851.6
42.5°	810.2	808.9	803.0	790.5	785.9
45°	750.4	745.2	737.3	724.2	722.8
47.5°	688.7	681.4	674.2	657.8	657.1
50°	624.9	619.7	611.1	594.7	588.1
52.5°	565.8	558.6	546.7	531.0	527.7
55°	509.3	498.8	486.3	473.1	469.9
57.5°	448.8	444.2	429.1	418.6	414.7
60°	395.6	391.7	376.5	366.7	366.7
62.5°	347.6	341.7	328.6	322.0	322.0
65°	301.0	296.4	285.2	282.6	281.3
67.5°	260.9	255.0	247.1	246.4	249.7
70°	226.1	218.8	212.3	218.8	220.8
72.5°	193.2	188.6	182.7	191.2	195.2
75°	163.6	159.7	156.4	163.6	169.5
77.5°	136.7	132.7	132.7	140.6	145.9
80°	109.7	107.1	109.7	116.3	121.6
82.5°	84.1	82.1	85.4	92.0	95.3
85°	57.2	53.9	57.8	63.7	64.4
87.5°	26.9	26.3	28.9	32.9	32.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)