

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: P293082

Luminaire Tested: **24GR-LD5-30-F1-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293082
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-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2608.0 lumens
Efficiency: N/A
Efficacy: 129.8 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

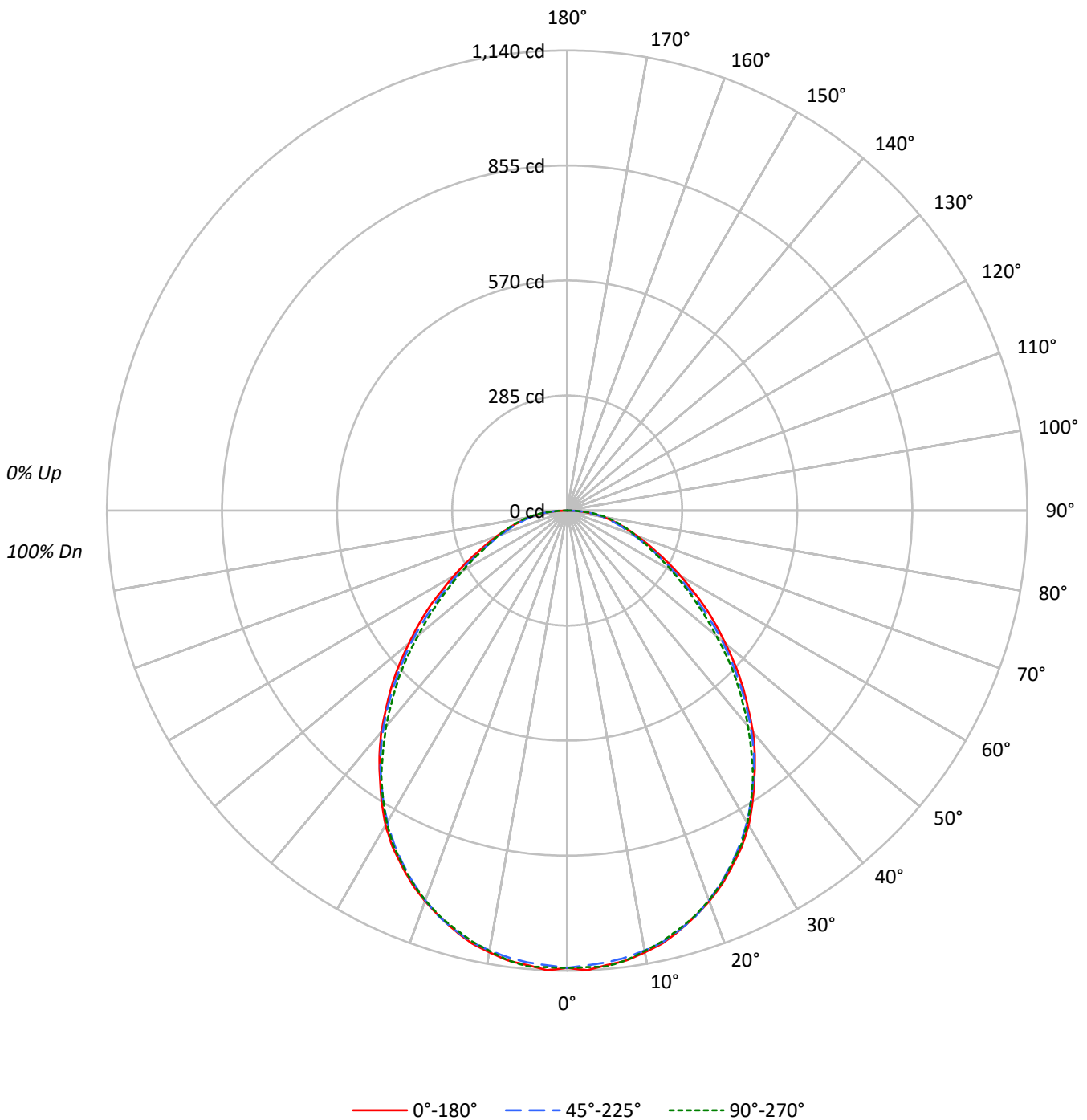
Input Watts (W): 20.088
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1524	1524	1524
5°	1526	1518	1531
10°	1518	1512	1513
15°	1499	1498	1494
20°	1474	1471	1471
25°	1440	1432	1435
30°	1398	1384	1388
35°	1328	1322	1318
40°	1258	1246	1224
45°	1169	1148	1126
50°	1071	1047	1008
55°	978	934	902
60°	871	829	808
65°	784	743	733
70°	728	683	711
75°	696	665	722
80°	696	696	771
85°	722	730	814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	4.1
10°-20°	302.8	11.6
20°-30°	444.3	17.0
30°-40°	502.4	19.3
40°-50°	464.3	17.8
50°-60°	357.7	13.7
60°-70°	236.9	9.1
70°-80°	141.0	5.4
80°-90°	51.7	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°	854.1	32.7
0°-40°	1356.5	52.0
0°-60°	2178.5	83.5
0°-90°	2608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1130	1130	1124	1124	1133	107
15°	1076	1074	1075	1075	1073	303
25°	970	967	964	963	967	447
35°	808	807	805	801	803	506
45°	614	610	604	593	592	473
55°	417	408	398	387	385	372
65°	246	243	234	231	230	247
75°	134	131	128	134	139	143
85°	47	44	47	52	53	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1132.9	1132.9	1132.9	1132.9	1132.9
2.5°	1139.8	1133.9	1127.5	1127.5	1132.3
5°	1130.2	1130.2	1123.7	1124.2	1133.4
7.5°	1124.2	1121.0	1116.7	1116.7	1123.7
10°	1111.3	1108.6	1106.5	1105.4	1107.6
12.5°	1097.4	1093.0	1094.7	1093.0	1092.5
15°	1076.4	1074.2	1075.3	1074.8	1072.6
17.5°	1053.8	1052.7	1054.9	1051.1	1052.7
20°	1029.6	1026.3	1027.4	1025.3	1027.4
22.5°	1002.1	1000.0	997.3	994.6	998.9
25°	969.9	967.2	964.5	963.4	966.6
27.5°	937.6	933.3	929.5	928.4	933.3
30°	899.9	895.1	890.8	889.7	893.5
32.5°	855.3	854.2	848.8	846.7	848.3
35°	808.5	807.4	804.7	801.0	802.6
37.5°	763.8	763.3	759.5	753.1	748.8
40°	716.0	712.2	709.5	700.4	697.1
42.5°	663.3	662.2	657.3	647.1	643.3
45°	614.3	610.0	603.5	592.8	591.7
47.5°	563.7	557.8	551.9	538.5	537.9
50°	511.6	507.3	500.3	486.8	481.4
52.5°	463.1	457.2	447.5	434.6	431.9
55°	416.9	408.3	398.1	387.3	384.6
57.5°	367.4	363.6	351.3	342.7	339.4
60°	323.8	320.6	308.2	300.2	300.2
62.5°	284.6	279.7	269.0	263.6	263.6
65°	246.4	242.6	233.5	231.3	230.2
67.5°	213.6	208.7	202.3	201.7	204.4
70°	185.0	179.1	173.7	179.1	180.7
72.5°	158.1	154.4	149.5	156.5	159.8
75°	133.9	130.7	128.0	133.9	138.8
77.5°	111.9	108.7	108.7	115.1	119.4
80°	89.8	87.7	89.8	95.2	99.5
82.5°	68.9	67.2	69.9	75.3	78.0
85°	46.8	44.1	47.3	52.2	52.7
87.5°	22.1	21.5	23.7	26.9	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)