

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: P293028

Luminaire Tested: **24GR-LD5-85-F1-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293028
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-LD5-85-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: 8096.0 lumens
Efficiency: N/A
Efficacy: 129.2 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

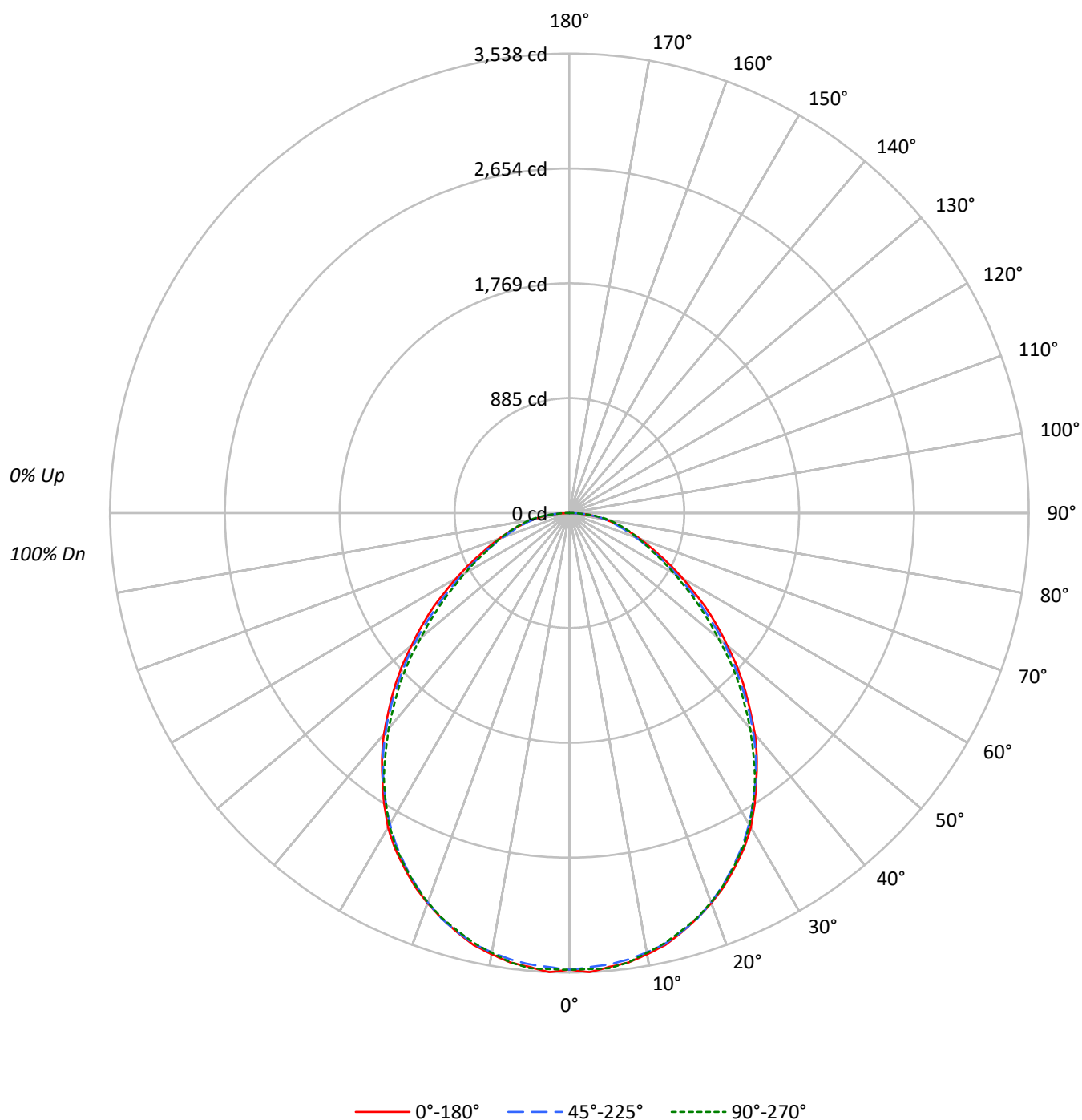
Input Watts (W): 62.682
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4732	4732	4732
5°	4739	4711	4752
10°	4713	4693	4697
15°	4654	4650	4638
20°	4576	4567	4567
25°	4470	4445	4455
30°	4340	4296	4309
35°	4122	4103	4092
40°	3904	3868	3801
45°	3629	3565	3495
50°	3324	3251	3128
55°	3036	2899	2801
60°	2705	2575	2507
65°	2435	2307	2275
70°	2260	2122	2207
75°	2162	2066	2240
80°	2161	2161	2393
85°	2243	2268	2526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.1	4.1
10°-20°	939.9	11.6
20°-30°	1379.4	17.0
30°-40°	1559.5	19.3
40°-50°	1441.3	17.8
50°-60°	1110.4	13.7
60°-70°	735.3	9.1
70°-80°	437.7	5.4
80°-90°	160.4	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°	2651.4	32.7
0°-40°	4210.8	52.0
0°-60°	6762.6	83.5
0°-90°	8096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3517	3517	3517	3517	3517	
5°	3508	3508	3488	3490	3518	333
15°	3341	3335	3338	3336	3330	942
25°	3011	3002	2994	2991	3001	1386
35°	2510	2506	2498	2486	2491	1570
45°	1907	1894	1874	1840	1837	1469
55°	1294	1267	1236	1202	1194	1154
65°	765	753	725	718	715	767
75°	416	406	397	416	431	443
85°	145	137	147	162	164	154
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3516.7	3516.7	3516.7	3516.7	3516.7
2.5°	3538.4	3520.1	3500.0	3500.0	3515.0
5°	3508.4	3508.4	3488.3	3490.0	3518.4
7.5°	3490.0	3480.0	3466.6	3466.6	3488.3
10°	3449.9	3441.6	3434.9	3431.5	3438.2
12.5°	3406.5	3393.1	3398.2	3393.1	3391.5
15°	3341.4	3334.7	3338.0	3336.4	3329.7
17.5°	3271.2	3267.9	3274.6	3262.9	3267.9
20°	3196.1	3186.1	3189.4	3182.7	3189.4
22.5°	3110.9	3104.3	3095.9	3087.6	3100.9
25°	3010.7	3002.4	2994.0	2990.7	3000.7
27.5°	2910.6	2897.2	2885.5	2882.2	2897.2
30°	2793.7	2778.6	2765.3	2761.9	2773.6
32.5°	2655.1	2651.7	2635.0	2628.3	2633.4
35°	2509.8	2506.4	2498.1	2486.4	2491.4
37.5°	2371.2	2369.5	2357.8	2337.8	2324.4
40°	2222.6	2210.9	2202.5	2174.1	2164.1
42.5°	2058.9	2055.6	2040.6	2008.8	1997.1
45°	1907.0	1893.6	1873.6	1840.2	1836.8
47.5°	1750.0	1731.6	1713.3	1671.5	1669.9
50°	1588.0	1574.7	1553.0	1511.2	1494.5
52.5°	1437.7	1419.4	1389.3	1349.2	1340.9
55°	1294.1	1267.4	1235.7	1202.3	1193.9
57.5°	1140.5	1128.8	1090.4	1063.7	1053.7
60°	1005.3	995.2	956.8	931.8	931.8
62.5°	883.4	868.3	834.9	818.2	818.2
65°	764.8	753.1	724.7	718.0	714.7
67.5°	662.9	647.9	627.9	626.2	634.5
70°	574.4	556.1	539.4	556.1	561.1
72.5°	490.9	479.2	464.2	485.9	495.9
75°	415.8	405.8	397.4	415.8	430.8
77.5°	347.3	337.3	337.3	357.3	370.7
80°	278.9	272.2	278.9	295.6	308.9
82.5°	213.7	208.7	217.1	233.8	242.1
85°	145.3	136.9	146.9	162.0	163.6
87.5°	68.5	66.8	73.5	83.5	81.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)