

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: P294357

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-34-FGW080-UNV-L92765-W2A1-U-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2889.0 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

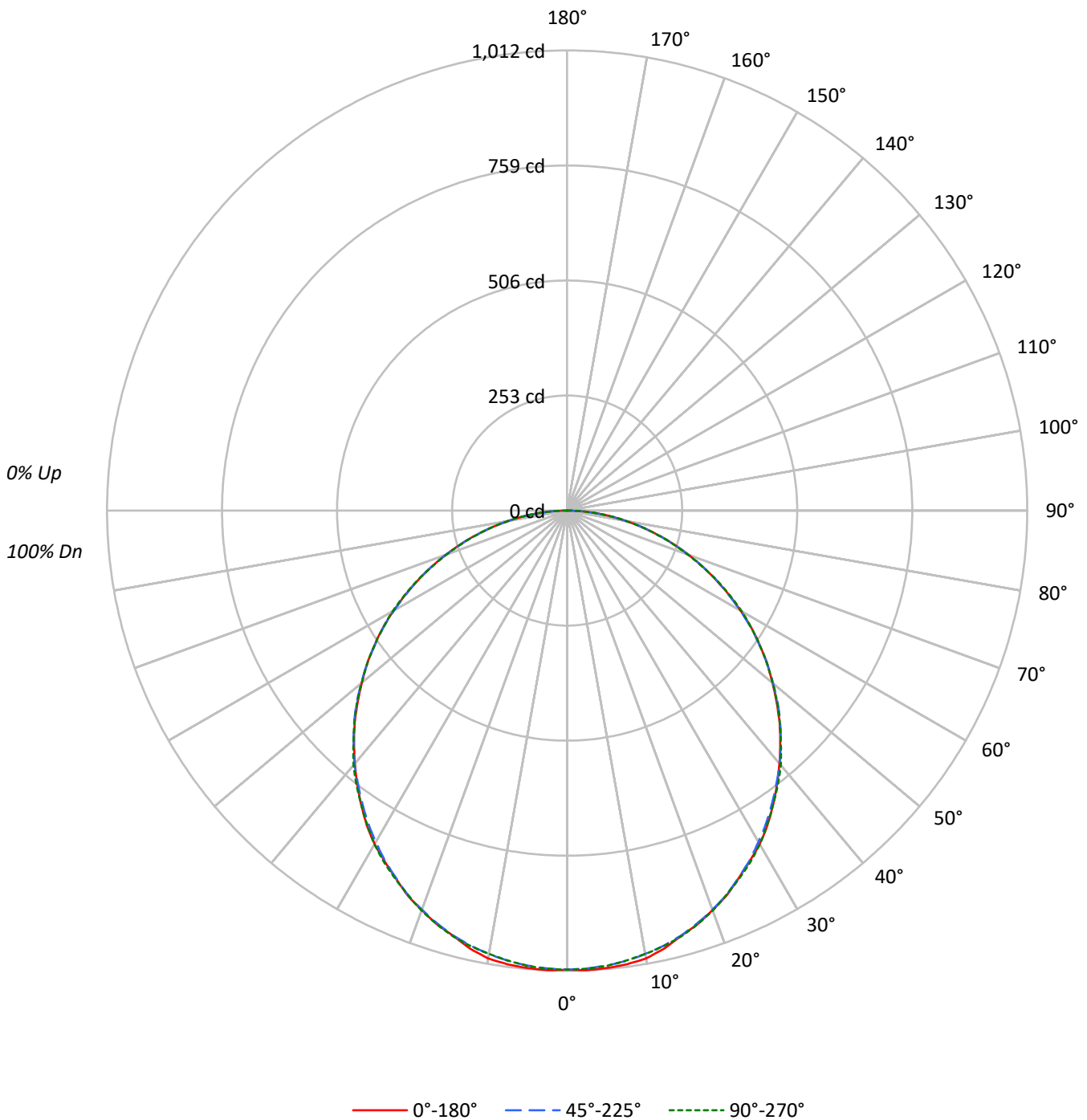
Input Watts (W): 24.087  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1359	1359	1359
5°	1364	1356	1357
10°	1367	1353	1353
15°	1349	1348	1350
20°	1338	1337	1340
25°	1324	1323	1327
30°	1316	1307	1317
35°	1297	1290	1297
40°	1276	1277	1284
45°	1258	1261	1259
50°	1234	1238	1235
55°	1215	1212	1215
60°	1186	1183	1193
65°	1150	1154	1158
70°	1113	1118	1110
75°	1073	1073	1073
80°	1013	1013	1024
85°	936	946	915



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.5	3.3
10°-20°	272.9	9.4
20°-30°	411.3	14.2
30°-40°	492.6	17.1
40°-50°	510.0	17.7
50°-60°	462.4	16.0
60°-70°	358.5	12.4
70°-80°	218.0	7.5
80°-90°	67.8	2.3
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°	779.7	27.0
0°-40°	1272.4	44.0
0°-60°	2244.7	77.7
0°-90°	2889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2889.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1010	1004	1004	1003	1005	96
15°	968	969	968	964	970	274
25°	892	892	891	894	894	412
35°	790	784	786	789	790	494
45°	661	662	663	660	662	509
55°	518	515	516	518	518	463
65°	361	363	362	361	364	358
75°	206	206	206	206	206	218
85°	61	60	61	61	59	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1009.7	1009.7	1009.7	1009.7	1009.7
2.5°	1011.8	1007.7	1007.7	1006.3	1008.4
5°	1009.7	1003.6	1004.3	1002.9	1005.0
7.5°	1006.3	998.2	998.8	997.5	998.2
10°	1000.2	990.7	990.0	989.3	990.0
12.5°	986.6	981.1	980.4	979.1	981.1
15°	968.2	968.9	967.5	964.1	969.5
17.5°	953.9	953.2	951.8	948.4	953.9
20°	934.8	935.5	934.1	932.7	936.2
22.5°	916.4	914.4	915.0	914.4	915.0
25°	891.9	891.9	891.2	893.9	893.9
27.5°	869.4	866.7	868.0	870.7	872.1
30°	846.9	840.1	841.4	844.2	847.6
32.5°	820.3	813.5	814.9	817.6	819.0
35°	789.7	784.2	785.6	789.0	789.7
37.5°	758.3	754.9	756.3	759.0	761.1
40°	726.3	724.9	727.0	726.3	731.1
42.5°	693.6	692.9	695.0	695.0	695.6
45°	660.9	662.3	662.9	660.2	661.6
47.5°	624.8	625.5	628.2	626.8	627.5
50°	589.4	588.7	591.4	592.1	590.0
52.5°	555.3	551.9	554.6	556.0	554.6
55°	517.8	515.1	516.5	518.5	517.8
57.5°	481.0	478.3	479.0	482.4	481.0
60°	440.8	440.1	439.5	442.2	443.5
62.5°	401.3	400.6	399.3	402.0	403.4
65°	361.1	363.2	362.5	361.1	363.8
67.5°	323.0	325.0	323.0	321.6	321.6
70°	282.8	284.8	284.1	282.8	282.1
72.5°	245.3	245.3	243.9	243.2	243.9
75°	206.4	205.8	206.4	205.8	206.4
77.5°	168.3	169.0	169.0	169.0	168.3
80°	130.8	130.8	130.8	131.5	132.2
82.5°	96.1	94.0	96.1	94.7	95.4
85°	60.6	60.0	61.3	60.6	59.3
87.5°	27.3	27.9	27.9	28.6	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)