

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: P294302

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294302
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-L93050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2795.0 lumens
Efficiency: N/A
Efficacy: 118.6 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

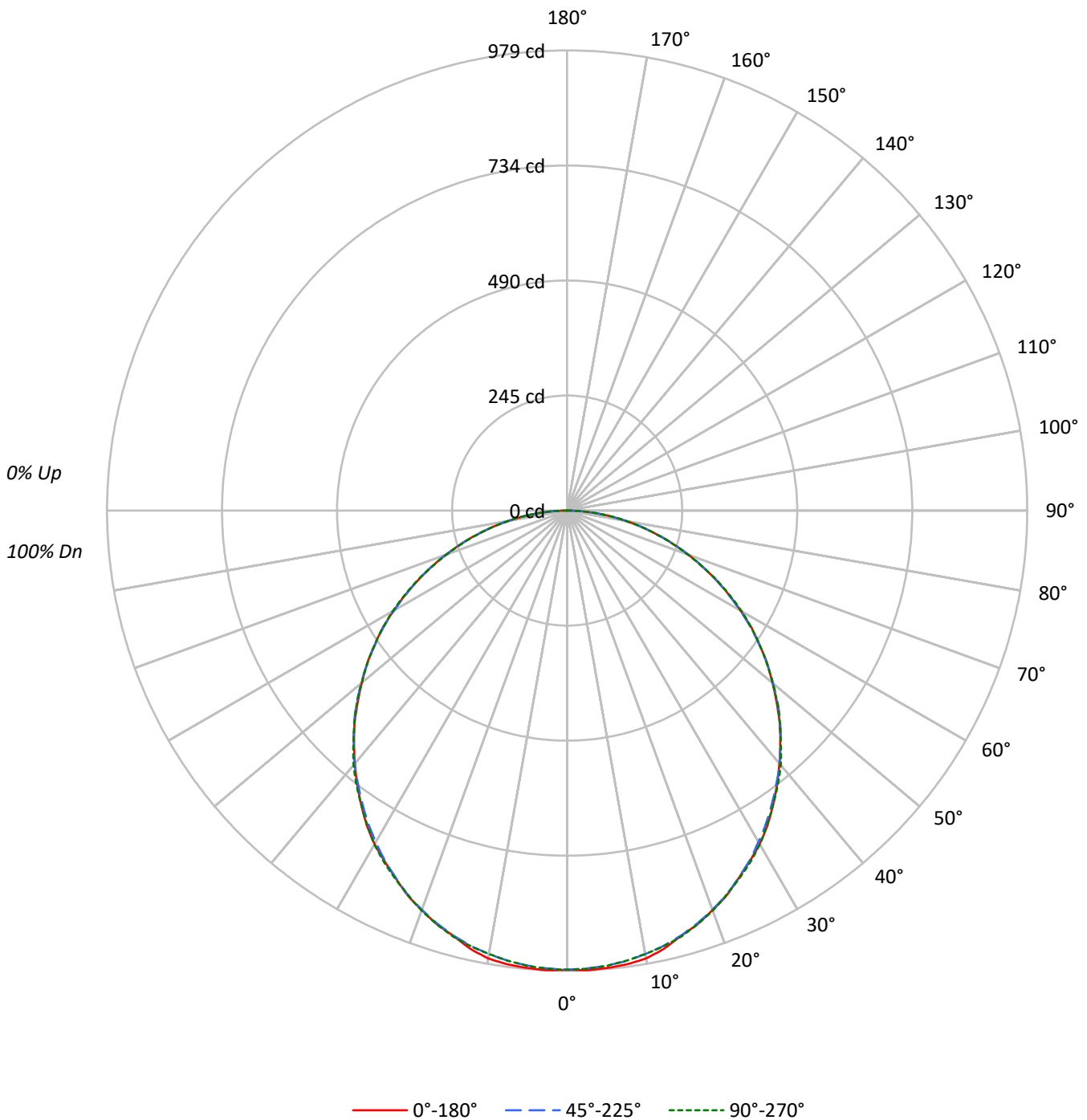
Input Watts (W): 23.568246
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1314	1314	1314
5°	1319	1312	1313
10°	1322	1309	1309
15°	1305	1304	1307
20°	1295	1294	1297
25°	1281	1280	1284
30°	1273	1265	1274
35°	1255	1248	1255
40°	1234	1235	1242
45°	1217	1220	1218
50°	1194	1198	1195
55°	1175	1172	1175
60°	1148	1144	1155
65°	1112	1117	1121
70°	1076	1081	1074
75°	1038	1038	1038
80°	981	981	991
85°	906	915	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	3.3
10°-20°	264.1	9.4
20°-30°	397.9	14.2
30°-40°	476.6	17.1
40°-50°	493.4	17.7
50°-60°	447.3	16.0
60°-70°	346.8	12.4
70°-80°	210.9	7.5
80°-90°	65.6	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°	754.4	27.0
0°-40°	1231.0	44.0
0°-60°	2171.7	77.7
0°-90°	2795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	977	971	972	970	972	93
15°	937	937	936	933	938	265
25°	863	863	862	865	865	398
35°	764	759	760	763	764	478
45°	639	641	641	639	640	493
55°	501	498	500	502	501	448
65°	349	351	351	349	352	346
75°	200	199	200	199	200	211
85°	59	58	59	59	57	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	976.9	976.9	976.9	976.9	976.9
2.5°	978.9	974.9	974.9	973.6	975.6
5°	976.9	971.0	971.6	970.3	972.3
7.5°	973.6	965.7	966.3	965.0	965.7
10°	967.7	958.4	957.8	957.1	957.8
12.5°	954.5	949.2	948.5	947.2	949.2
15°	936.7	937.3	936.0	932.7	938.0
17.5°	922.8	922.2	920.9	917.6	922.8
20°	904.4	905.0	903.7	902.4	905.7
22.5°	886.6	884.6	885.3	884.6	885.3
25°	862.8	862.8	862.2	864.8	864.8
27.5°	841.1	838.5	839.8	842.4	843.7
30°	819.3	812.8	814.1	816.7	820.0
32.5°	793.6	787.0	788.4	791.0	792.3
35°	764.0	758.7	760.0	763.3	764.0
37.5°	733.7	730.4	731.7	734.3	736.3
40°	702.7	701.4	703.3	702.7	707.3
42.5°	671.0	670.4	672.3	672.3	673.0
45°	639.4	640.7	641.4	638.7	640.1
47.5°	604.5	605.1	607.8	606.4	607.1
50°	570.2	569.5	572.2	572.8	570.8
52.5°	537.2	533.9	536.6	537.9	536.6
55°	501.0	498.3	499.6	501.6	501.0
57.5°	465.4	462.7	463.4	466.7	465.4
60°	426.5	425.8	425.2	427.8	429.1
62.5°	388.2	387.6	386.3	388.9	390.2
65°	349.4	351.3	350.7	349.4	352.0
67.5°	312.4	314.4	312.4	311.1	311.1
70°	273.6	275.5	274.9	273.6	272.9
72.5°	237.3	237.3	236.0	235.3	236.0
75°	199.7	199.1	199.7	199.1	199.7
77.5°	162.8	163.5	163.5	163.5	162.8
80°	126.6	126.6	126.6	127.2	127.9
82.5°	92.9	91.0	92.9	91.6	92.3
85°	58.7	58.0	59.3	58.7	57.3
87.5°	26.4	27.0	27.0	27.7	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)