

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: P294361

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294361
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-LD5-38-FGW080-UNV-L92765-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: 2963.0 lumens
Efficiency: N/A
Efficacy: 115.4 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

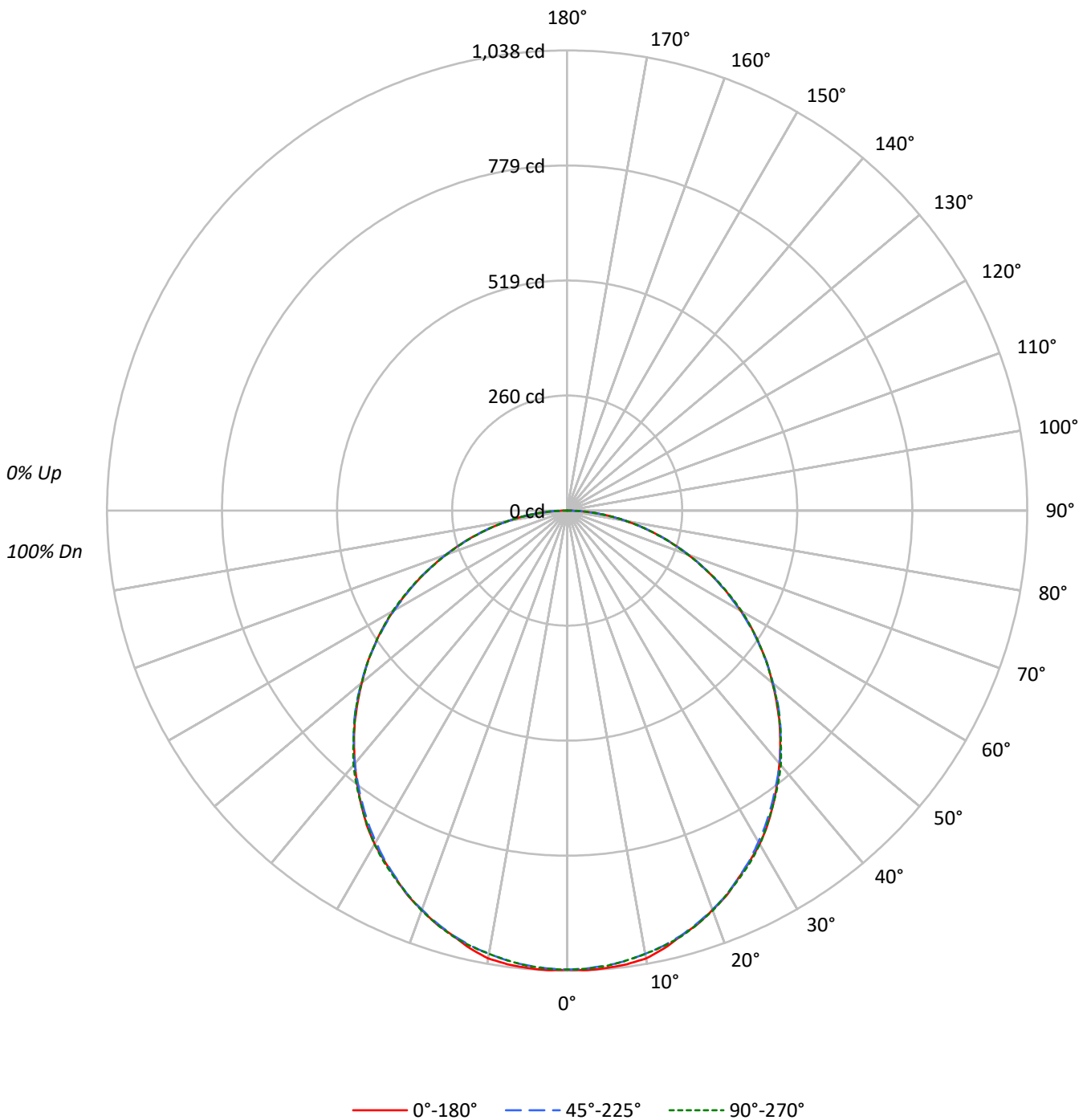
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1393	1393	1393
5°	1399	1391	1392
10°	1401	1387	1387
15°	1383	1382	1385
20°	1373	1372	1375
25°	1358	1357	1361
30°	1349	1341	1351
35°	1330	1323	1330
40°	1308	1310	1317
45°	1290	1294	1291
50°	1265	1270	1267
55°	1246	1243	1246
60°	1217	1213	1224
65°	1179	1184	1188
70°	1141	1146	1138
75°	1101	1101	1101
80°	1040	1040	1051
85°	960	971	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.3
10°-20°	279.9	9.4
20°-30°	421.9	14.2
30°-40°	505.3	17.1
40°-50°	523.0	17.7
50°-60°	474.2	16.0
60°-70°	367.7	12.4
70°-80°	223.6	7.5
80°-90°	69.6	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°	799.7	27.0
0°-40°	1305.0	44.0
0°-60°	2302.2	77.7
0°-90°	2963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1036	1029	1030	1029	1031	99
15°	993	994	992	989	994	281
25°	915	915	914	917	917	422
35°	810	804	806	809	810	507
45°	678	679	680	677	678	522
55°	531	528	530	532	531	475
65°	370	372	372	370	373	367
75°	212	211	212	211	212	224
85°	62	62	63	62	61	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1035.6	1035.6	1035.6	1035.6	1035.6
2.5°	1037.7	1033.5	1033.5	1032.1	1034.2
5°	1035.6	1029.3	1030.0	1028.6	1030.7
7.5°	1032.1	1023.7	1024.4	1023.0	1023.7
10°	1025.8	1016.0	1015.3	1014.6	1015.3
12.5°	1011.8	1006.3	1005.6	1004.2	1006.3
15°	993.0	993.7	992.3	988.8	994.4
17.5°	978.3	977.6	976.2	972.7	978.3
20°	958.7	959.4	958.0	956.6	960.1
22.5°	939.9	937.8	938.5	937.8	938.5
25°	914.7	914.7	914.0	916.8	916.8
27.5°	891.7	888.9	890.3	893.0	894.4
30°	868.6	861.6	863.0	865.8	869.3
32.5°	841.3	834.4	835.7	838.5	839.9
35°	809.9	804.3	805.7	809.2	809.9
37.5°	777.8	774.3	775.7	778.4	780.5
40°	744.9	743.5	745.6	744.9	749.8
42.5°	711.4	710.7	712.8	712.8	713.5
45°	677.8	679.2	679.9	677.1	678.5
47.5°	640.8	641.5	644.3	642.9	643.6
50°	604.5	603.8	606.5	607.2	605.1
52.5°	569.5	566.0	568.8	570.2	568.8
55°	531.1	528.3	529.7	531.8	531.1
57.5°	493.3	490.5	491.2	494.7	493.3
60°	452.1	451.4	450.7	453.5	454.9
62.5°	411.6	410.9	409.5	412.3	413.7
65°	370.4	372.5	371.8	370.4	373.2
67.5°	331.2	333.3	331.2	329.8	329.8
70°	290.0	292.1	291.4	290.0	289.3
72.5°	251.6	251.6	250.2	249.5	250.2
75°	211.7	211.0	211.7	211.0	211.7
77.5°	172.6	173.3	173.3	173.3	172.6
80°	134.2	134.2	134.2	134.9	135.6
82.5°	98.5	96.4	98.5	97.1	97.8
85°	62.2	61.5	62.9	62.2	60.8
87.5°	28.0	28.7	28.7	29.3	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)