

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: P292743

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-26)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-FGW080-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3437.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

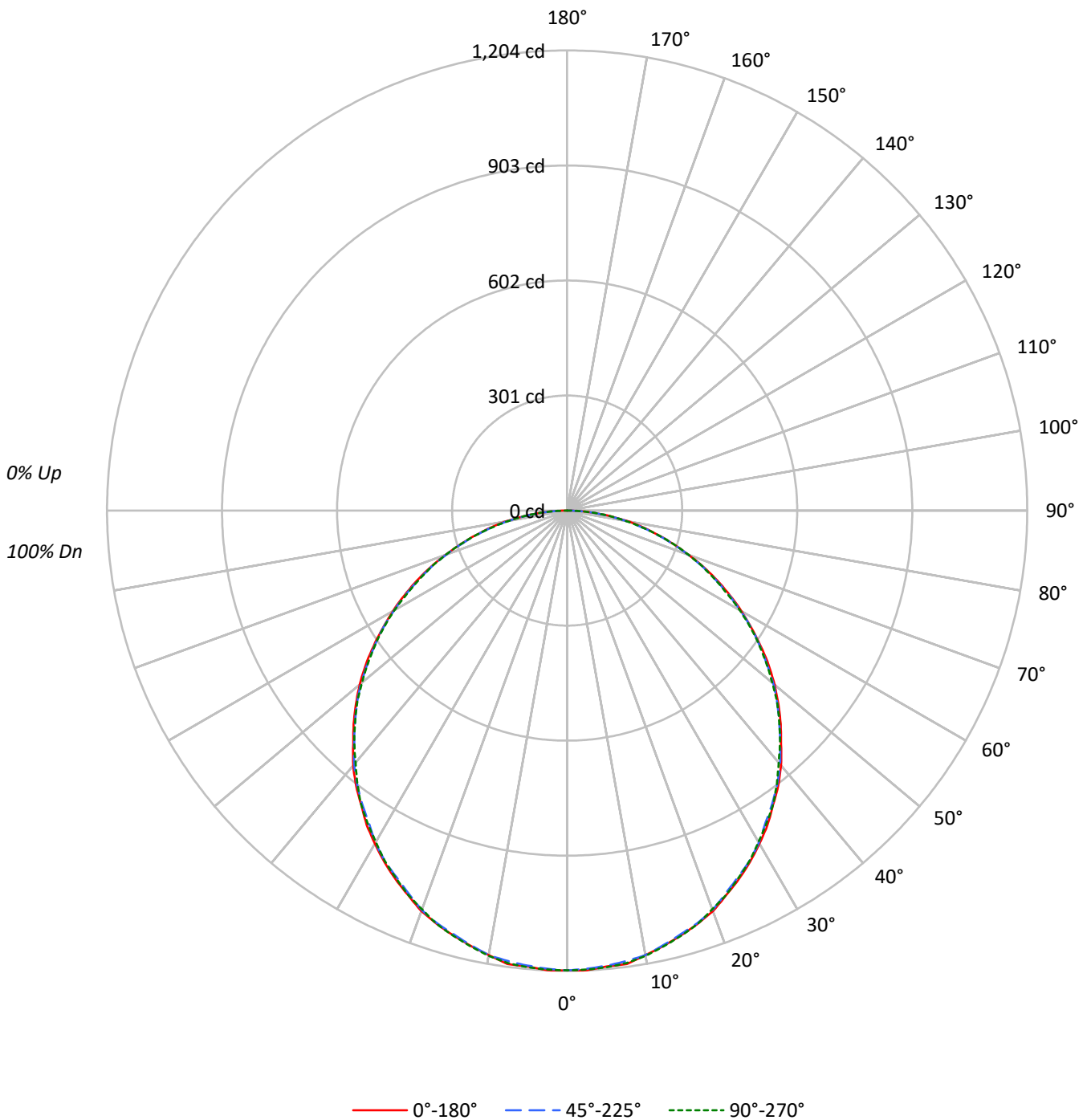
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3237	3237	3237
5°	3233	3228	3239
10°	3227	3227	3232
15°	3205	3197	3208
20°	3194	3185	3179
25°	3158	3140	3149
30°	3127	3117	3111
35°	3087	3073	3087
40°	3060	3045	3024
45°	3007	2988	2988
50°	2966	2949	2932
55°	2902	2883	2879
60°	2835	2819	2808
65°	2763	2731	2718
70°	2652	2644	2652
75°	2560	2529	2549
80°	2534	2408	2393
85°	2245	2180	2214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.3
10°-20°	324.7	9.4
20°-30°	488.9	14.2
30°-40°	586.8	17.1
40°-50°	607.1	17.7
50°-60°	550.2	16.0
60°-70°	426.5	12.4
70°-80°	258.9	7.5
80°-90°	80.1	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°	927.4	27.0
0°-40°	1514.2	44.1
0°-60°	2671.5	77.7
0°-90°	3437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1197	1197	1195	1198	1199	114
15°	1150	1150	1148	1152	1152	325
25°	1064	1062	1058	1062	1061	490
35°	940	940	936	936	940	589
45°	790	789	785	785	785	610
55°	619	618	615	614	614	553
65°	434	434	429	431	427	429
75°	246	245	243	243	245	262
85°	73	72	71	71	72	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1203.0	1203.0	1203.0	1203.0	1203.0
2.5°	1204.0	1198.9	1200.0	1202.0	1202.0
5°	1196.9	1196.9	1194.9	1197.9	1198.9
7.5°	1196.9	1191.9	1188.9	1191.9	1193.9
10°	1180.8	1178.8	1180.8	1179.8	1182.8
12.5°	1166.7	1164.6	1164.6	1167.7	1167.7
15°	1150.5	1150.5	1147.5	1152.5	1151.5
17.5°	1134.4	1134.4	1132.3	1132.3	1134.4
20°	1115.2	1110.1	1112.2	1111.1	1110.1
22.5°	1088.9	1085.9	1083.9	1086.9	1087.9
25°	1063.7	1061.7	1057.7	1061.7	1060.7
27.5°	1036.5	1034.4	1033.4	1031.4	1033.4
30°	1006.2	1004.2	1003.2	1001.1	1001.1
32.5°	975.9	971.9	966.8	971.9	970.9
35°	939.6	939.6	935.5	936.5	939.6
37.5°	907.3	905.3	903.2	900.2	901.2
40°	871.0	867.9	866.9	864.9	860.9
42.5°	828.6	828.6	824.5	825.5	824.5
45°	790.2	789.2	785.2	785.2	785.2
47.5°	749.8	748.8	745.8	743.8	745.8
50°	708.5	704.4	704.4	701.4	700.4
52.5°	665.1	662.0	658.0	659.0	657.0
55°	618.6	617.6	614.6	613.6	613.6
57.5°	572.2	573.2	571.2	567.2	568.2
60°	526.8	525.8	523.8	521.8	521.8
62.5°	480.4	480.4	476.3	476.3	472.3
65°	434.0	434.0	428.9	430.9	426.9
67.5°	387.5	386.5	383.5	382.5	383.5
70°	337.1	338.1	336.1	336.1	337.1
72.5°	291.7	290.7	289.6	289.6	291.7
75°	246.2	245.2	243.2	243.2	245.2
77.5°	204.9	199.8	198.8	200.8	197.8
80°	163.5	156.4	155.4	154.4	154.4
82.5°	115.1	112.0	113.0	112.0	114.0
85°	72.7	71.7	70.6	70.6	71.7
87.5°	34.3	32.3	32.3	31.3	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)