

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: P292133

Luminaire Tested: **22GR-LD5-24-A-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-A-UNV-L83050-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2578.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

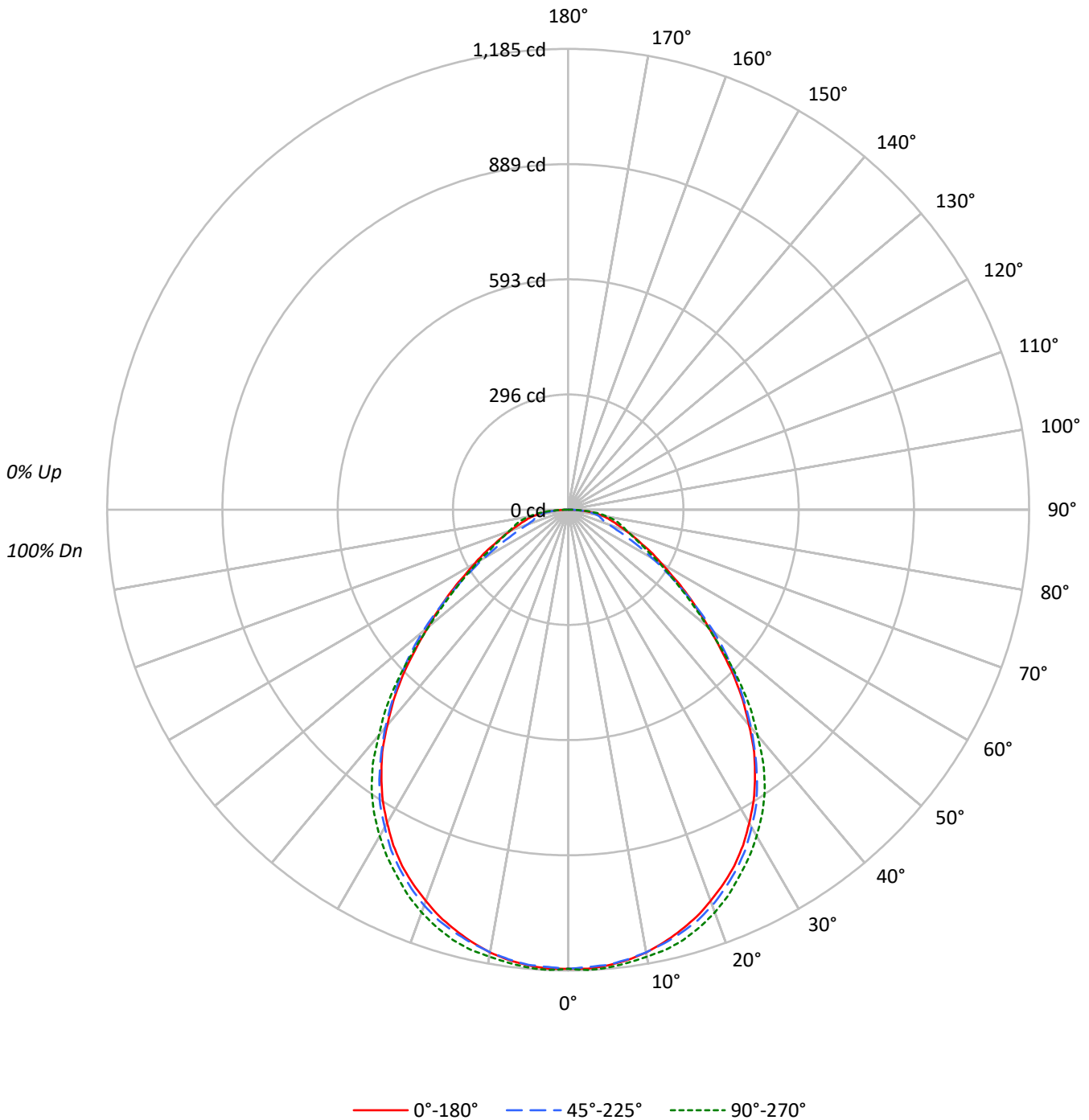
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3177	3177	3177
5°	3178	3173	3192
10°	3159	3157	3188
15°	3119	3135	3190
20°	3065	3101	3156
25°	3000	3034	3089
30°	2891	2930	3011
35°	2749	2781	2893
40°	2542	2569	2660
45°	2283	2324	2361
50°	1974	2044	1954
55°	1722	1677	1655
60°	1492	1343	1434
65°	1333	1054	1287
70°	1237	873	1270
75°	1235	923	1410
80°	1367	1162	1590
85°	1426	1260	1797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	4.3
10°-20°	318.2	12.3
20°-30°	470.6	18.3
30°-40°	531.1	20.6
40°-50°	468.1	18.2
50°-60°	321.2	12.5
60°-70°	189.5	7.4
70°-80°	118.3	4.6
80°-90°	49.3	1.9
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°	900.5	34.9
0°-40°	1431.6	55.5
0°-60°	2220.9	86.1
0°-90°	2578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1176	1174	1175	1179	1182	112
15°	1119	1121	1125	1139	1145	316
25°	1010	1014	1022	1035	1040	464
35°	837	844	846	867	881	521
45°	600	603	611	614	620	461
55°	367	358	358	346	353	329
65°	209	184	166	191	202	211
75°	119	107	89	124	136	127
85°	46	43	41	53	58	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1180.6	1180.6	1180.6	1180.6	1180.6
2.5°	1181.2	1178.2	1177.0	1181.8	1184.8
5°	1176.4	1174.0	1174.6	1178.8	1181.8
7.5°	1168.0	1166.2	1166.2	1172.2	1175.2
10°	1156.0	1155.4	1155.4	1162.6	1166.8
12.5°	1139.2	1139.8	1142.2	1151.8	1159.0
15°	1119.4	1120.6	1125.4	1139.2	1145.2
17.5°	1097.8	1097.8	1107.4	1118.2	1125.4
20°	1070.2	1072.0	1082.8	1094.8	1102.0
22.5°	1042.1	1045.1	1054.0	1067.8	1074.4
25°	1010.3	1013.9	1021.7	1034.9	1040.3
27.5°	973.1	977.9	986.3	995.9	1007.3
30°	930.5	937.7	943.1	956.3	968.9
32.5°	887.3	893.9	899.9	913.7	928.1
35°	836.9	844.1	846.5	866.9	880.7
37.5°	785.3	788.3	789.5	809.9	824.9
40°	723.5	729.5	731.3	747.5	757.1
42.5°	664.1	666.5	670.1	682.1	693.5
45°	599.9	602.9	610.7	614.3	620.3
47.5°	532.7	541.7	550.7	539.3	539.9
50°	471.5	478.7	488.3	466.7	466.7
52.5°	416.9	420.5	421.1	403.1	406.7
55°	367.1	358.1	357.5	345.6	352.7
57.5°	317.4	305.4	301.2	297.6	306.0
60°	277.2	255.6	249.6	255.0	266.4
62.5°	244.2	216.6	205.2	219.0	229.2
65°	209.4	184.2	165.6	191.4	202.2
67.5°	182.4	158.4	134.4	171.0	178.8
70°	157.2	138.6	111.0	155.4	161.4
72.5°	136.8	122.4	96.0	140.4	147.6
75°	118.8	106.8	88.8	124.2	135.6
77.5°	104.4	91.2	82.8	107.4	121.2
80°	88.2	75.0	75.0	90.0	102.6
82.5°	69.6	58.8	60.6	73.2	82.2
85°	46.2	43.2	40.8	53.4	58.2
87.5°	23.4	24.0	21.6	27.6	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)