

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: P291935

Luminaire Tested: **22GR-LD5-24-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-F125-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2440.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

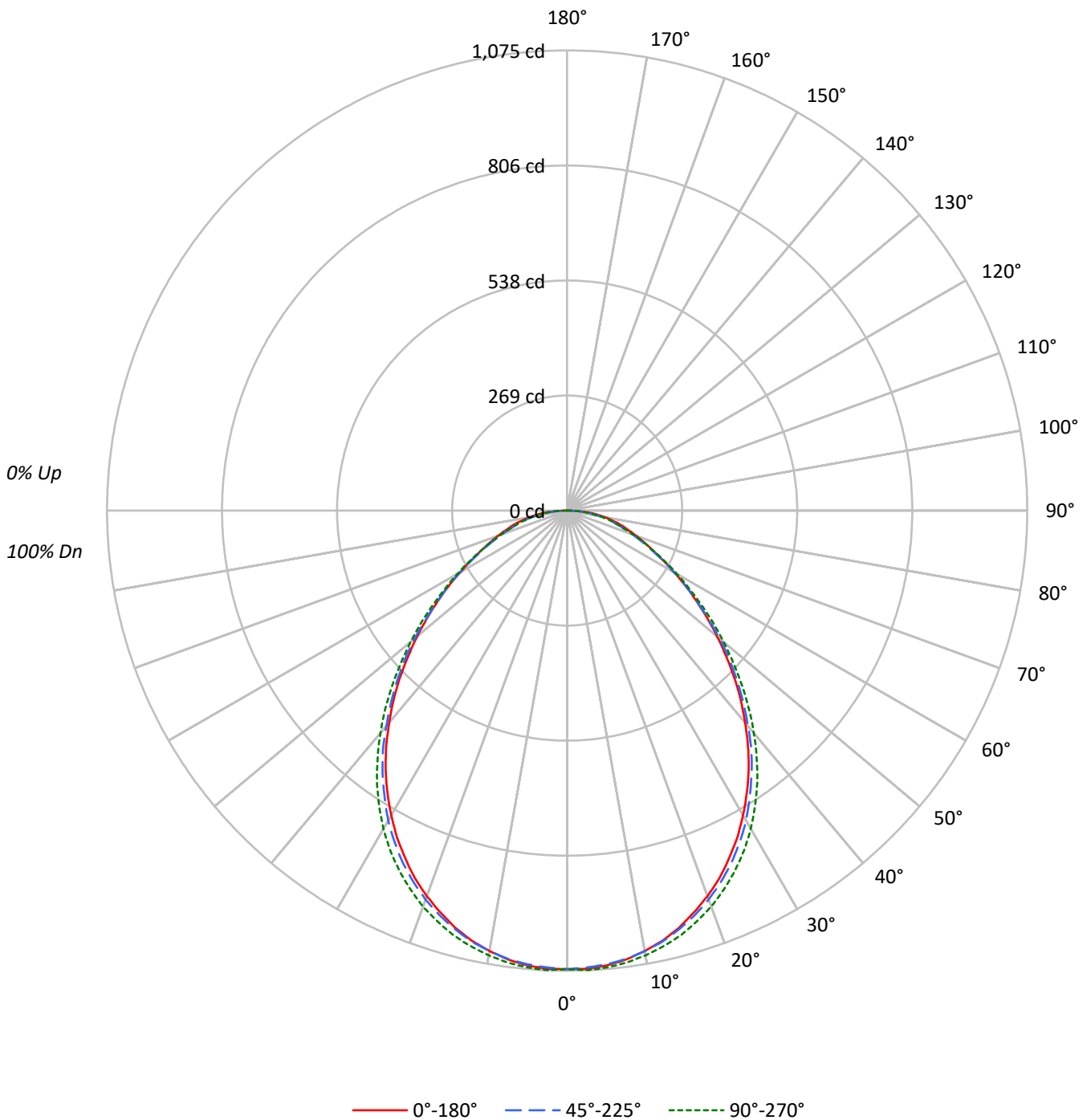
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291935

CATALOG NUMBER: 22GR-LD5-24-F125-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P291935

CATALOG NUMBER: 22GR-LD5-24-F125-UNV-L83050-W2A1-U-3500K

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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2883	2883	2883
5°	2881	2874	2894
10°	2854	2856	2882
15°	2811	2820	2861
20°	2745	2769	2819
25°	2659	2696	2755
30°	2554	2598	2667
35°	2429	2468	2544
40°	2271	2309	2385
45°	2103	2135	2198
50°	1915	1946	1996
55°	1729	1734	1785
60°	1551	1557	1594
65°	1413	1384	1417
70°	1345	1270	1292
75°	1354	1225	1230
80°	1404	1237	1229
85°	1538	1312	1241



TEST NUMBER: P291935

CATALOG NUMBER: 22GR-LD5-24-F125-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	4.1
10°-20°	285.9	11.7
20°-30°	418.4	17.1
30°-40°	470.4	19.3
40°-50°	433.8	17.8
50°-60°	334.4	13.7
60°-70°	220.7	9.0
70°-80°	128.4	5.3
80°-90°	46.8	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°	805.5	33.0
0°-40°	1275.9	52.3
0°-60°	2044.2	83.8
0°-90°	2440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2440.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1071	1071	1071	1071	1071	
5°	1067	1064	1064	1069	1071	101
15°	1009	1009	1012	1021	1027	284
25°	896	900	908	921	928	412
35°	739	743	751	767	774	461
45°	553	553	561	572	578	425
55°	369	368	370	376	380	331
65°	222	221	217	219	222	223
75°	130	125	118	116	118	137
85°	50	49	42	39	40	53
90°	0	0	0	0	0	



TEST NUMBER: P291935

CATALOG NUMBER: 22GR-LD5-24-F125-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.2	1071.2	1071.2	1071.2	1071.2
2.5°	1071.2	1068.9	1068.3	1072.3	1074.6
5°	1066.6	1064.4	1063.8	1068.9	1071.2
7.5°	1057.6	1055.9	1056.5	1062.1	1064.9
10°	1044.6	1044.0	1045.1	1051.4	1054.8
12.5°	1029.3	1028.7	1031.0	1037.8	1042.3
15°	1008.9	1008.9	1012.3	1021.3	1027.0
17.5°	984.5	986.2	991.3	1000.4	1006.6
20°	958.5	960.2	967.0	977.2	984.5
22.5°	929.6	931.9	938.7	951.1	957.4
25°	895.7	900.2	908.1	920.6	927.9
27.5°	860.6	865.7	873.0	888.3	895.1
30°	822.1	825.5	836.2	850.4	858.3
32.5°	781.3	784.7	793.8	810.7	817.5
35°	739.4	742.8	751.3	766.6	774.5
37.5°	694.1	696.9	707.1	719.0	727.5
40°	646.6	650.5	657.3	671.5	678.8
42.5°	600.1	601.8	609.2	623.3	629.0
45°	552.6	553.1	561.1	572.4	577.5
47.5°	503.3	504.4	514.1	520.9	526.0
50°	457.5	458.0	464.8	471.0	476.7
52.5°	411.6	411.6	415.0	421.8	429.1
55°	368.6	368.0	369.7	375.9	380.5
57.5°	327.8	327.2	329.5	333.5	336.9
60°	288.2	287.0	289.3	291.6	296.1
62.5°	253.1	254.2	251.4	254.8	258.2
65°	221.9	220.8	217.4	219.1	222.5
67.5°	195.3	193.6	188.0	189.1	193.1
70°	171.0	167.6	161.4	161.4	164.2
72.5°	148.9	145.5	137.6	138.1	139.3
75°	130.2	124.6	117.8	115.5	118.3
77.5°	109.8	105.3	99.1	97.4	98.5
80°	90.6	87.2	79.8	77.6	79.3
82.5°	71.9	69.1	60.6	58.9	59.4
85°	49.8	49.3	42.5	39.1	40.2
87.5°	26.6	27.2	22.1	19.8	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)