

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: P292031

Luminaire Tested: **22GR-LD5-20-F125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292031
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-LD5-20-F125-UNV-L93050-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1942.0 lumens
Efficiency: N/A
Efficacy: 120.7 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

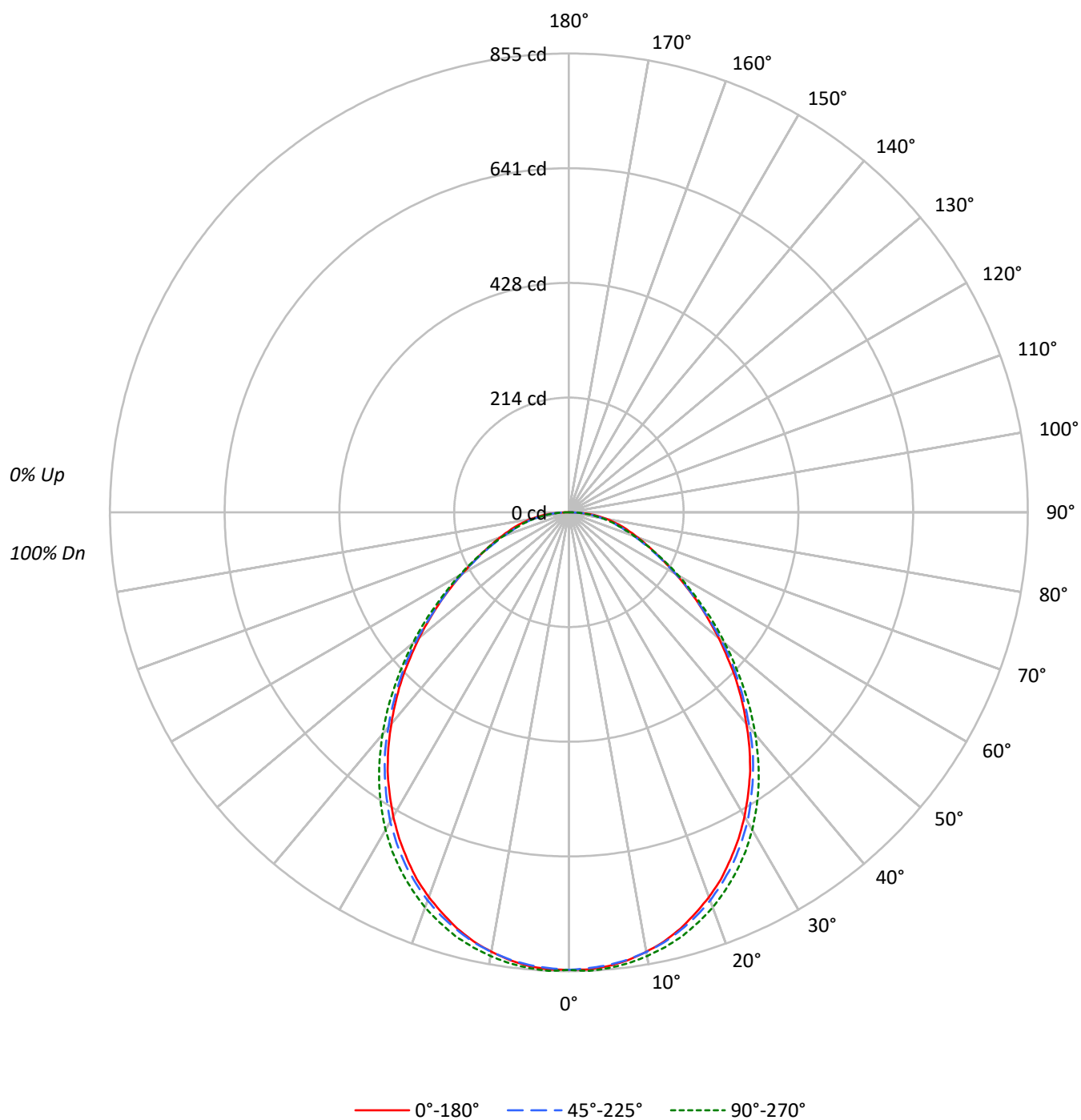
Input Watts (W): 16.089
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	2294	2294	2294
5°	2293	2287	2303
10°	2272	2273	2294
15°	2237	2245	2277
20°	2185	2204	2244
25°	2117	2146	2193
30°	2033	2068	2123
35°	1933	1964	2025
40°	1808	1838	1898
45°	1674	1700	1749
50°	1524	1549	1588
55°	1376	1380	1421
60°	1235	1239	1269
65°	1124	1102	1128
70°	1071	1010	1028
75°	1077	974	979
80°	1117	984	978
85°	1226	1044	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	4.1
10°-20°	227.5	11.7
20°-30°	333.0	17.1
30°-40°	374.4	19.3
40°-50°	345.3	17.8
50°-60°	266.1	13.7
60°-70°	175.6	9.0
70°-80°	102.2	5.3
80°-90°	37.2	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°	641.1	33.0
0°-40°	1015.5	52.3
0°-60°	1627.0	83.8
0°-90°	1942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	849	847	847	851	852	80
15°	803	803	806	813	817	226
25°	713	716	723	733	738	328
35°	588	591	598	610	616	367
45°	440	440	447	456	460	339
55°	293	293	294	299	303	263
65°	177	176	173	174	177	177
75°	104	99	94	92	94	109
85°	40	39	34	31	32	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	852.5	852.5	852.5	852.5	852.5
2.5°	852.5	850.7	850.3	853.4	855.2
5°	848.9	847.1	846.7	850.7	852.5
7.5°	841.7	840.4	840.8	845.3	847.6
10°	831.4	830.9	831.8	836.8	839.5
12.5°	819.2	818.8	820.6	826.0	829.6
15°	803.0	803.0	805.7	812.9	817.4
17.5°	783.6	785.0	789.0	796.2	801.2
20°	762.9	764.2	769.6	777.7	783.6
22.5°	739.9	741.7	747.1	757.0	762.0
25°	712.9	716.5	722.8	732.7	738.5
27.5°	684.9	689.0	694.8	707.0	712.4
30°	654.3	657.0	665.5	676.8	683.1
32.5°	621.8	624.5	631.7	645.3	650.7
35°	588.5	591.2	598.0	610.1	616.4
37.5°	552.4	554.7	562.8	572.3	579.0
40°	514.6	517.7	523.2	534.4	540.3
42.5°	477.6	479.0	484.9	496.1	500.6
45°	439.8	440.2	446.6	455.6	459.6
47.5°	400.6	401.5	409.2	414.6	418.6
50°	364.1	364.5	369.9	374.9	379.4
52.5°	327.6	327.6	330.3	335.7	341.6
55°	293.3	292.9	294.2	299.2	302.8
57.5°	260.9	260.5	262.3	265.4	268.1
60°	229.4	228.5	230.3	232.1	235.7
62.5°	201.4	202.3	200.1	202.8	205.5
65°	176.6	175.7	173.0	174.4	177.1
67.5°	155.5	154.1	149.6	150.5	153.7
70°	136.1	133.4	128.4	128.4	130.7
72.5°	118.5	115.8	109.5	109.9	110.8
75°	103.6	99.1	93.7	91.9	94.2
77.5°	87.4	83.8	78.9	77.5	78.4
80°	72.1	69.4	63.5	61.7	63.1
82.5°	57.2	55.0	48.2	46.9	47.3
85°	39.7	39.2	33.8	31.1	32.0
87.5°	21.2	21.6	17.6	15.8	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)