

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: P291975

Luminaire Tested: **22GR-LD5-24-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291975
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-L82765-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: 2383.0 lumens
Efficiency: N/A
Efficacy: 130.7 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

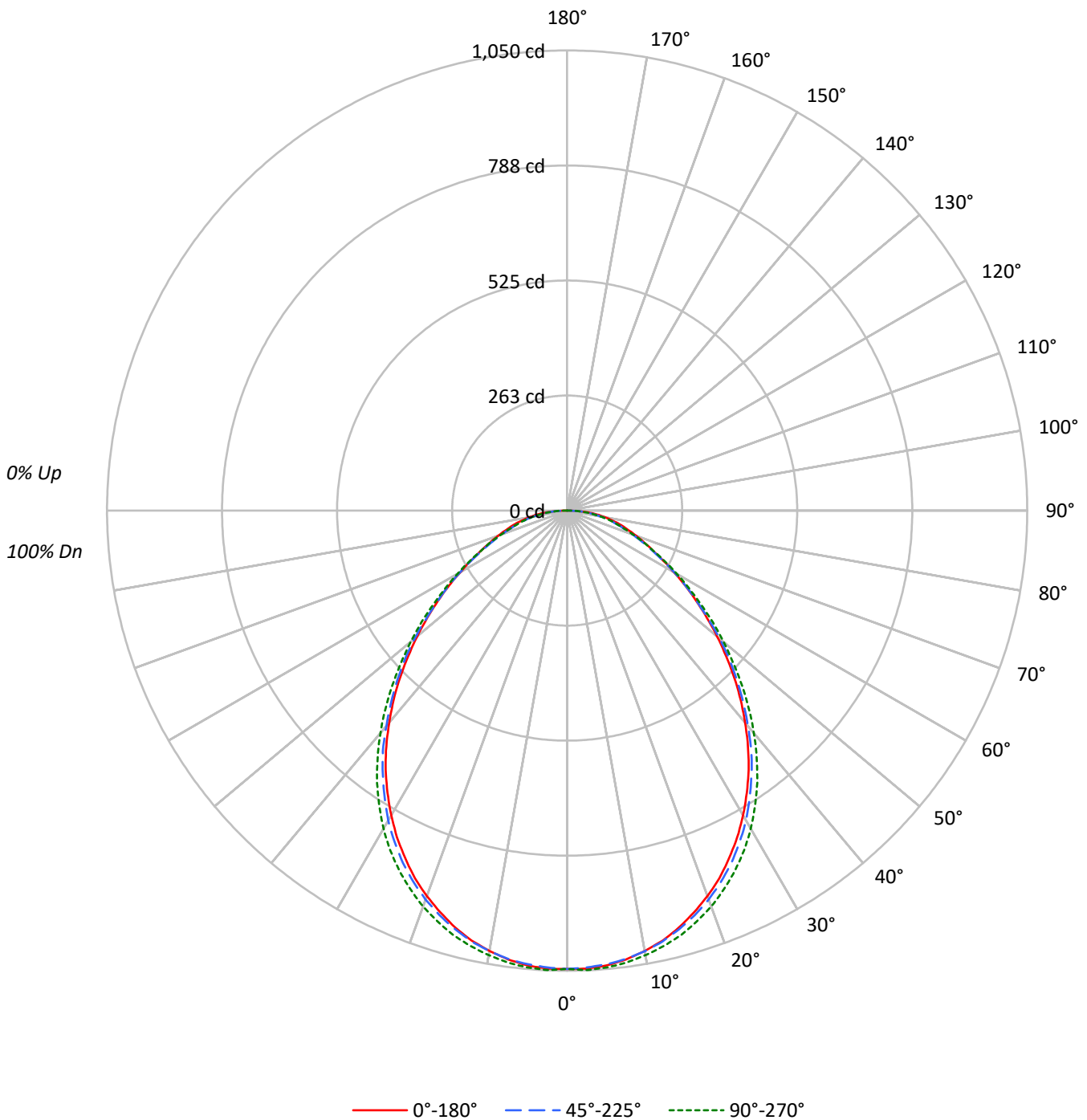
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2815	2815	2815
5°	2814	2807	2826
10°	2788	2789	2815
15°	2745	2754	2794
20°	2681	2704	2753
25°	2597	2633	2691
30°	2495	2538	2605
35°	2372	2410	2485
40°	2218	2255	2329
45°	2054	2085	2146
50°	1870	1901	1949
55°	1689	1694	1743
60°	1514	1520	1556
65°	1380	1352	1384
70°	1314	1240	1262
75°	1323	1196	1202
80°	1371	1209	1199
85°	1504	1281	1213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	4.1
10°-20°	279.2	11.7
20°-30°	408.6	17.1
30°-40°	459.4	19.3
40°-50°	423.7	17.8
50°-60°	326.6	13.7
60°-70°	215.5	9.0
70°-80°	125.4	5.3
80°-90°	45.7	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°	786.7	33.0
0°-40°	1246.1	52.3
0°-60°	1996.4	83.8
0°-90°	2383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2383.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1042	1040	1039	1044	1046	99
15°	985	985	989	998	1003	277
25°	875	879	887	899	906	402
35°	722	725	734	749	756	450
45°	540	540	548	559	564	416
55°	360	359	361	367	372	323
65°	217	216	212	214	217	217
75°	127	122	115	113	116	134
85°	49	48	42	38	39	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1046.1	1046.1	1046.1	1046.1	1046.1
2.5°	1046.1	1043.9	1043.4	1047.3	1049.5
5°	1041.7	1039.5	1039.0	1043.9	1046.1
7.5°	1032.9	1031.2	1031.8	1037.3	1040.1
10°	1020.2	1019.6	1020.7	1026.8	1030.1
12.5°	1005.2	1004.7	1006.9	1013.5	1017.9
15°	985.3	985.3	988.6	997.5	1003.0
17.5°	961.5	963.2	968.2	977.0	983.1
20°	936.1	937.8	944.4	954.4	961.5
22.5°	907.9	910.1	916.8	928.9	935.0
25°	874.7	879.2	886.9	899.1	906.3
27.5°	840.5	845.4	852.6	867.5	874.2
30°	802.9	806.2	816.7	830.5	838.2
32.5°	763.0	766.4	775.2	791.8	798.4
35°	722.1	725.4	733.7	748.7	756.4
37.5°	677.9	680.7	690.6	702.2	710.5
40°	631.4	635.3	642.0	655.8	663.0
42.5°	586.1	587.8	595.0	608.8	614.3
45°	539.7	540.2	548.0	559.0	564.0
47.5°	491.6	492.7	502.1	508.7	513.7
50°	446.8	447.3	454.0	460.0	465.6
52.5°	402.0	402.0	405.3	411.9	419.1
55°	360.0	359.4	361.1	367.1	371.6
57.5°	320.1	319.6	321.8	325.7	329.0
60°	281.4	280.3	282.5	284.8	289.2
62.5°	247.2	248.3	245.5	248.8	252.1
65°	216.7	215.6	212.3	214.0	217.3
67.5°	190.8	189.1	183.6	184.7	188.5
70°	167.0	163.7	157.6	157.6	160.4
72.5°	145.4	142.1	134.4	134.9	136.0
75°	127.2	121.6	115.0	112.8	115.6
77.5°	107.3	102.8	96.8	95.1	96.2
80°	88.5	85.2	78.0	75.8	77.4
82.5°	70.2	67.5	59.2	57.5	58.1
85°	48.7	48.1	41.5	38.2	39.3
87.5°	26.0	26.5	21.6	19.4	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)