

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: P292066

Luminaire Tested: **22GR-LD5-20-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292066
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-L92765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1884.0 lumens
Efficiency: N/A
Efficacy: 119.9 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

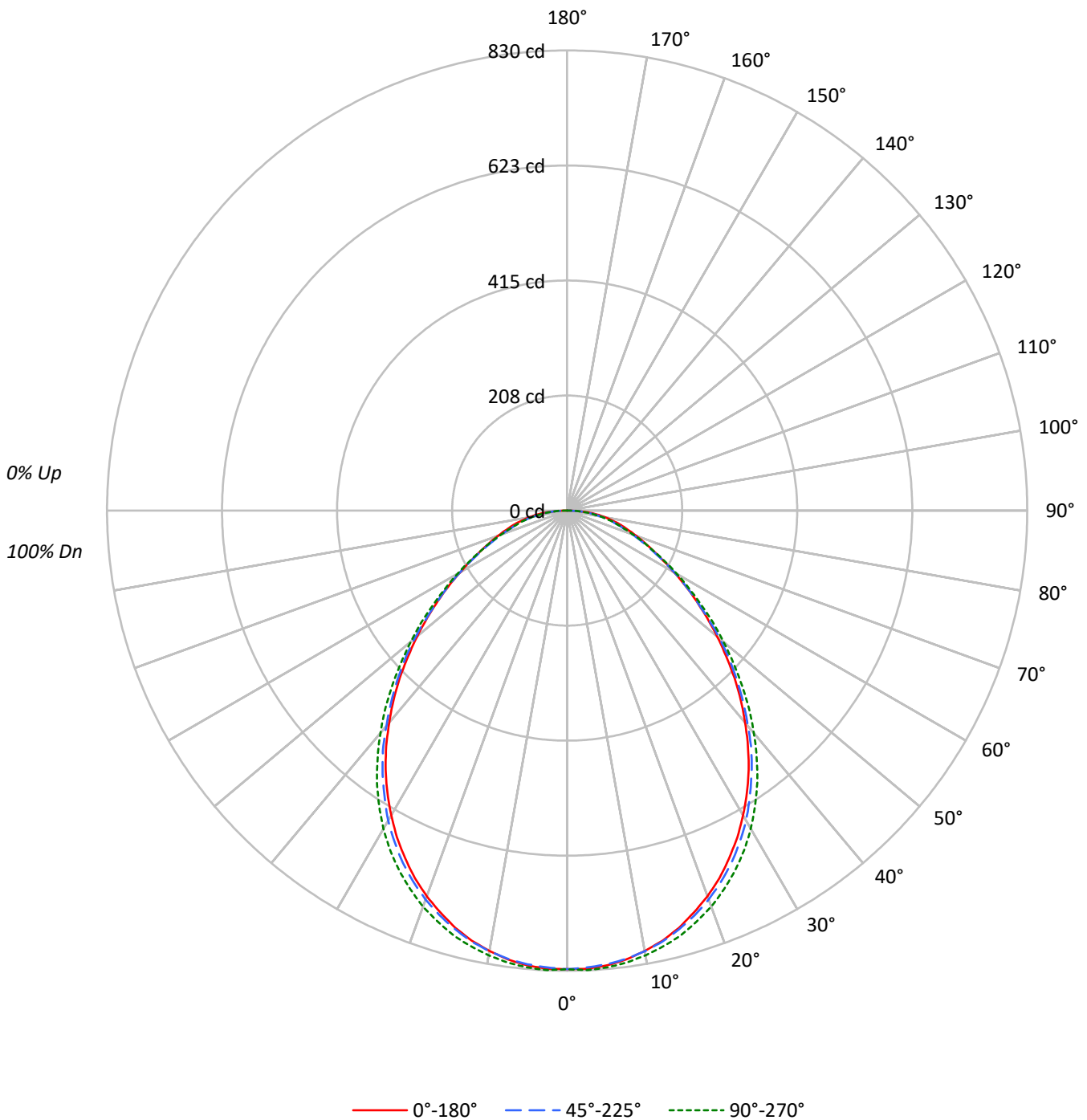
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2226	2226	2226
5°	2225	2219	2234
10°	2204	2205	2225
15°	2170	2177	2209
20°	2119	2138	2177
25°	2053	2082	2127
30°	1972	2006	2059
35°	1875	1906	1964
40°	1754	1783	1841
45°	1624	1649	1697
50°	1479	1503	1541
55°	1335	1339	1378
60°	1197	1202	1230
65°	1091	1069	1094
70°	1039	980	998
75°	1045	945	950
80°	1083	955	948
85°	1189	1013	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	4.1
10°-20°	220.7	11.7
20°-30°	323.1	17.1
30°-40°	363.2	19.3
40°-50°	335.0	17.8
50°-60°	258.2	13.7
60°-70°	170.4	9.0
70°-80°	99.2	5.3
80°-90°	36.1	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°	621.9	33.0
0°-40°	985.2	52.3
0°-60°	1578.4	83.8
0°-90°	1884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	824	822	821	825	827	78
15°	779	779	782	789	793	219
25°	692	695	701	711	716	318
35°	571	574	580	592	598	356
45°	427	427	433	442	446	329
55°	285	284	286	290	294	255
65°	171	170	168	169	172	172
75°	100	96	91	89	91	106
85°	38	38	33	30	31	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	827.1	827.1	827.1	827.1	827.1
2.5°	827.1	825.3	824.9	828.0	829.7
5°	823.6	821.8	821.4	825.3	827.1
7.5°	816.6	815.3	815.7	820.1	822.3
10°	806.5	806.1	807.0	811.8	814.4
12.5°	794.7	794.3	796.0	801.3	804.8
15°	779.0	779.0	781.6	788.6	793.0
17.5°	760.2	761.5	765.4	772.4	777.2
20°	740.1	741.4	746.6	754.5	760.2
22.5°	717.8	719.5	724.8	734.4	739.2
25°	691.6	695.1	701.2	710.8	716.5
27.5°	664.5	668.4	674.1	685.9	691.1
30°	634.7	637.4	645.7	656.6	662.7
32.5°	603.3	605.9	612.9	626.0	631.2
35°	570.9	573.5	580.1	591.9	598.0
37.5°	535.9	538.1	546.0	555.2	561.7
40°	499.2	502.3	507.5	518.5	524.1
42.5°	463.4	464.7	470.4	481.3	485.7
45°	426.7	427.1	433.2	442.0	445.9
47.5°	388.6	389.5	396.9	402.2	406.1
50°	353.2	353.7	358.9	363.7	368.1
52.5°	317.8	317.8	320.4	325.7	331.4
55°	284.6	284.1	285.5	290.3	293.8
57.5°	253.1	252.7	254.4	257.5	260.1
60°	222.5	221.6	223.4	225.1	228.6
62.5°	195.4	196.3	194.1	196.7	199.3
65°	171.4	170.5	167.9	169.2	171.8
67.5°	150.8	149.5	145.1	146.0	149.1
70°	132.0	129.4	124.6	124.6	126.8
72.5°	115.0	112.3	106.2	106.7	107.5
75°	100.5	96.2	90.9	89.2	91.4
77.5°	84.8	81.3	76.5	75.2	76.1
80°	69.9	67.3	61.6	59.9	61.2
82.5°	55.5	53.3	46.8	45.5	45.9
85°	38.5	38.0	32.8	30.2	31.0
87.5°	20.5	21.0	17.0	15.3	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)