

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: P291967

Luminaire Tested: **22GR-LD5-20-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291967
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-L82765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2075.0 lumens
Efficiency: N/A
Efficacy: 132.8 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

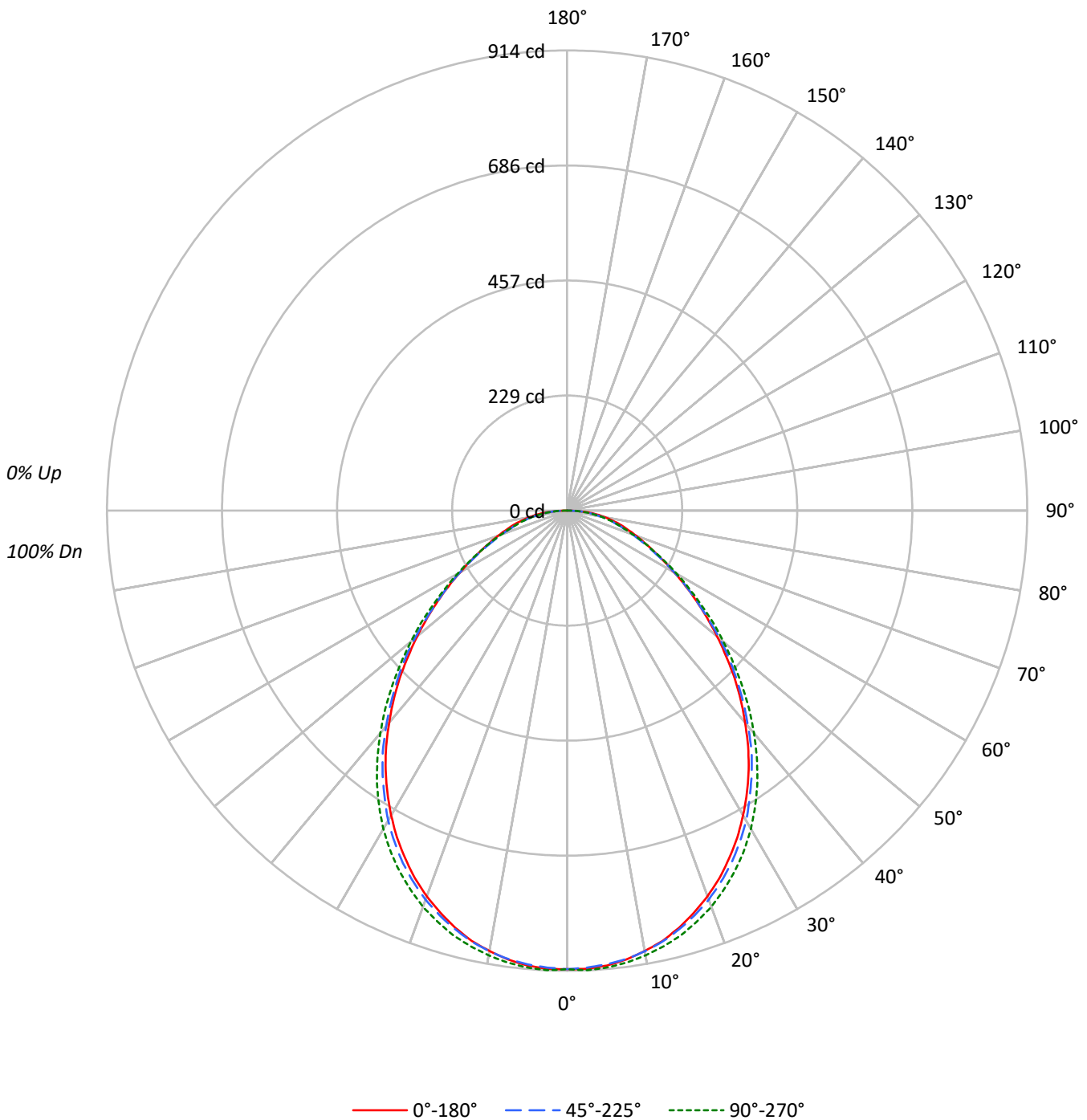
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2451	2451	2451
5°	2450	2444	2461
10°	2427	2429	2451
15°	2390	2398	2433
20°	2334	2355	2398
25°	2262	2293	2343
30°	2172	2210	2268
35°	2066	2099	2164
40°	1931	1964	2028
45°	1788	1816	1869
50°	1629	1655	1697
55°	1470	1475	1518
60°	1319	1324	1355
65°	1202	1177	1205
70°	1144	1079	1098
75°	1151	1041	1046
80°	1193	1052	1044
85°	1309	1115	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	4.1
10°-20°	243.1	11.7
20°-30°	355.8	17.1
30°-40°	400.1	19.3
40°-50°	368.9	17.8
50°-60°	284.4	13.7
60°-70°	187.6	9.0
70°-80°	109.2	5.3
80°-90°	39.8	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°	685.0	33.0
0°-40°	1085.1	52.3
0°-60°	1738.4	83.8
0°-90°	2075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	911	911	911	911	911	
5°	907	905	905	909	911	86
15°	858	858	861	869	873	241
25°	762	766	772	783	789	350
35°	629	632	639	652	659	392
45°	470	470	477	487	491	362
55°	313	313	314	320	324	281
65°	189	188	185	186	189	189
75°	111	106	100	98	101	117
85°	42	42	36	33	34	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.9	910.9	910.9	910.9	910.9
2.5°	910.9	909.0	908.5	911.9	913.8
5°	907.1	905.2	904.7	909.0	910.9
7.5°	899.4	897.9	898.4	903.2	905.6
10°	888.3	887.8	888.8	894.1	897.0
12.5°	875.3	874.8	876.7	882.5	886.4
15°	858.0	858.0	860.9	868.6	873.4
17.5°	837.3	838.7	843.0	850.8	856.0
20°	815.1	816.6	822.3	831.0	837.3
22.5°	790.6	792.5	798.3	808.9	814.2
25°	761.7	765.5	772.3	782.9	789.1
27.5°	731.8	736.2	742.4	755.4	761.2
30°	699.1	702.0	711.1	723.2	729.9
32.5°	664.4	667.3	675.0	689.5	695.2
35°	628.8	631.7	638.9	651.9	658.6
37.5°	590.3	592.7	601.4	611.5	618.7
40°	549.8	553.2	559.0	571.0	577.3
42.5°	510.4	511.8	518.1	530.1	534.9
45°	469.9	470.4	477.1	486.8	491.1
47.5°	428.0	429.0	437.2	442.9	447.3
50°	389.0	389.5	395.3	400.6	405.4
52.5°	350.0	350.0	352.9	358.7	365.0
55°	313.4	313.0	314.4	319.7	323.5
57.5°	278.8	278.3	280.2	283.6	286.5
60°	245.1	244.1	246.0	248.0	251.8
62.5°	215.2	216.2	213.8	216.7	219.5
65°	188.7	187.8	184.9	186.3	189.2
67.5°	166.1	164.7	159.8	160.8	164.2
70°	145.4	142.5	137.2	137.2	139.6
72.5°	126.6	123.7	117.0	117.5	118.4
75°	110.7	105.9	100.1	98.2	100.6
77.5°	93.4	89.6	84.3	82.8	83.8
80°	77.0	74.1	67.9	66.0	67.4
82.5°	61.1	58.7	51.5	50.1	50.6
85°	42.4	41.9	36.1	33.2	34.2
87.5°	22.6	23.1	18.8	16.9	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)