

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: P291988

Luminaire Tested: **22GR-LD5-28-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291988
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-LD5-28-F125-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3034.0 lumens
Efficiency: N/A
Efficacy: 133.7 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

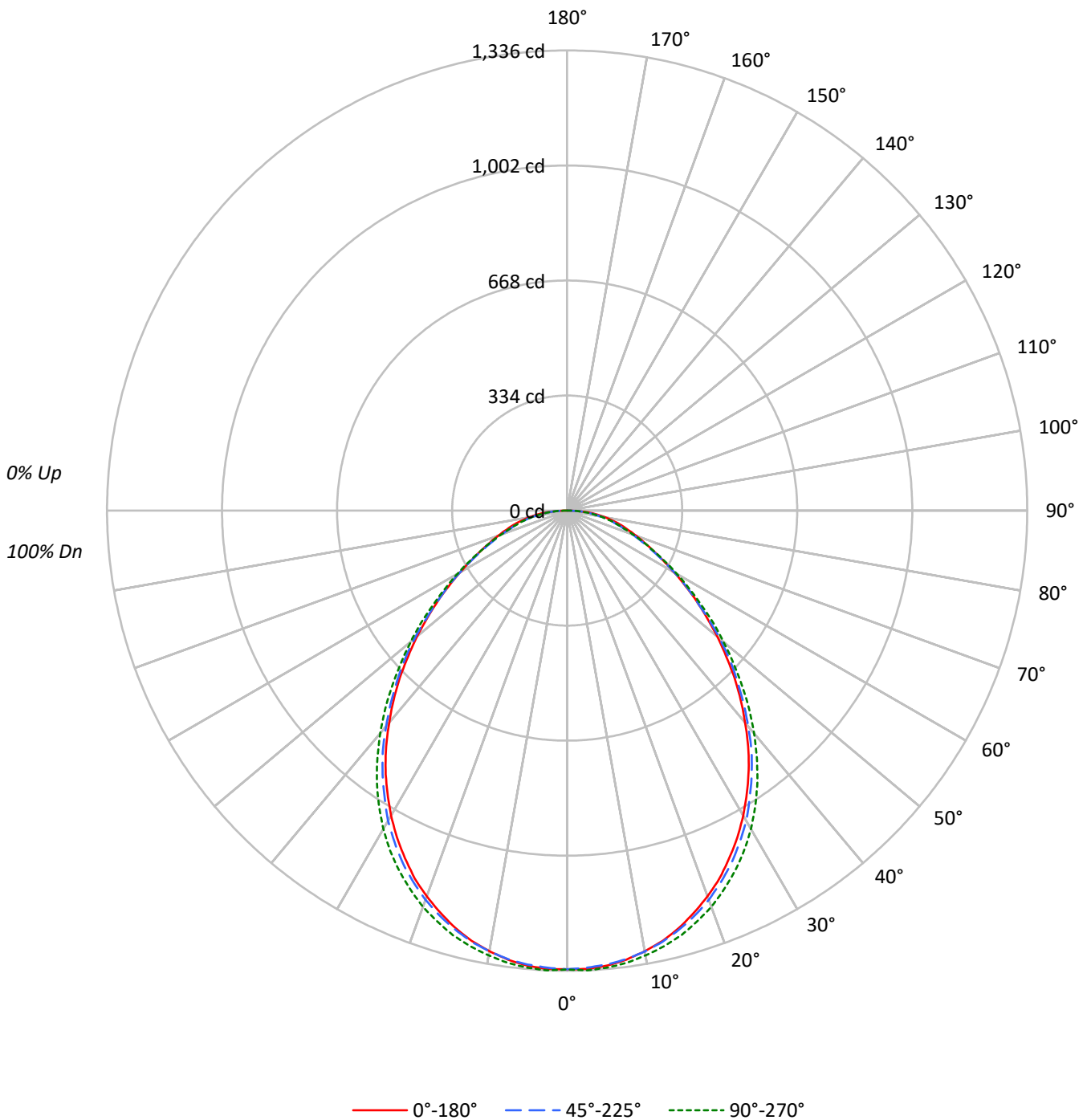
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	3584	3584	3584
5°	3583	3573	3598
10°	3549	3551	3584
15°	3495	3507	3558
20°	3413	3443	3506
25°	3307	3353	3426
30°	3176	3231	3316
35°	3020	3069	3164
40°	2824	2871	2965
45°	2615	2655	2733
50°	2381	2420	2482
55°	2150	2157	2220
60°	1928	1936	1982
65°	1757	1721	1762
70°	1673	1578	1607
75°	1683	1522	1529
80°	1745	1539	1528
85°	1914	1630	1544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	4.1
10°-20°	355.5	11.7
20°-30°	520.3	17.1
30°-40°	585.0	19.3
40°-50°	539.5	17.8
50°-60°	415.8	13.7
60°-70°	274.4	9.0
70°-80°	159.7	5.3
80°-90°	58.2	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°	1001.6	33.0
0°-40°	1586.6	52.3
0°-60°	2541.8	83.8
0°-90°	3034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1326	1324	1323	1329	1332	126
15°	1254	1254	1259	1270	1277	353
25°	1114	1119	1129	1145	1154	512
35°	919	924	934	953	963	573
45°	687	688	698	712	718	529
55°	458	458	460	467	473	411
65°	276	275	270	272	277	277
75°	162	155	146	144	147	171
85°	62	61	53	49	50	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1331.9	1329.1	1328.4	1333.3	1336.2
5°	1326.3	1323.5	1322.8	1329.1	1331.9
7.5°	1315.0	1312.9	1313.6	1320.7	1324.2
10°	1298.9	1298.1	1299.6	1307.3	1311.5
12.5°	1279.8	1279.1	1282.0	1290.4	1296.0
15°	1254.5	1254.5	1258.7	1270.0	1277.0
17.5°	1224.2	1226.3	1232.7	1243.9	1251.7
20°	1191.8	1194.0	1202.4	1215.1	1224.2
22.5°	1155.9	1158.8	1167.2	1182.7	1190.4
25°	1113.7	1119.3	1129.2	1144.7	1153.8
27.5°	1070.1	1076.4	1085.5	1104.6	1113.0
30°	1022.2	1026.4	1039.8	1057.4	1067.2
32.5°	971.5	975.7	987.0	1008.1	1016.6
35°	919.4	923.6	934.2	953.2	963.1
37.5°	863.1	866.6	879.3	894.1	904.6
40°	804.0	808.9	817.3	834.9	844.1
42.5°	746.2	748.3	757.5	775.1	782.1
45°	687.1	687.8	697.6	711.7	718.1
47.5°	625.8	627.3	639.2	647.7	654.0
50°	568.8	569.5	578.0	585.7	592.8
52.5°	511.8	511.8	516.0	524.5	533.6
55°	458.3	457.6	459.7	467.4	473.1
57.5°	407.6	406.9	409.7	414.6	418.9
60°	358.3	356.9	359.7	362.6	368.2
62.5°	314.7	316.1	312.6	316.8	321.0
65°	276.0	274.6	270.3	272.4	276.7
67.5°	242.9	240.8	233.7	235.1	240.1
70°	212.6	208.4	200.6	200.6	204.2
72.5°	185.1	180.9	171.1	171.8	173.2
75°	161.9	154.9	146.4	143.6	147.1
77.5°	136.6	130.9	123.2	121.1	122.5
80°	112.6	108.4	99.3	96.4	98.6
82.5°	89.4	85.9	75.3	73.2	73.9
85°	62.0	61.2	52.8	48.6	50.0
87.5°	33.1	33.8	27.5	24.6	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)